

# Manufacturers Record

EXPONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development  
of the South and Southwest as the Nation's Greatest Material Asset

Trade-Name Registered in the U. S. Patent Office

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## An Open Letter to President Hoover and Congress.

**T**HE tariff question is before the country; it will not down.

A general revision of the tariff is demanded far and wide. The MANUFACTURERS RECORD, therefore, in this open letter invites the attention of President Hoover and of Congress to the facts set forth, with special reference to the South, but equally applicable to the entire country.

"Will you permit me to make some suggestions in regard to the proposed tariff revision vitally affecting the welfare of the South?"

"By reason of the fact that Southern politicians so long worshipped the fetish of 'free trade,' this section has been greatly hampered in nearly all tariff bills. It is to a large extent a producer of 'raw materials,' so-called, though no material, in my opinion, can be classed as 'raw' when labor has once touched it. What is the raw material for one industry is the finished product of another.

"Many times in the past, when manufacturers have sought to obtain protection on their product, they have vigorously opposed any protection on the so-called 'raw materials' of the South and though Southern Congressmen knew that tariff bills would be passed, most of them have refused to aid in securing protection of the industries of their section.

"Fortunately a change is coming about and Southern Congressmen are now beginning to realize that so long as a protective tariff is the accepted policy of the United States, the South should receive its share of protection.

"Take, for instance, jute, the importation of which has for some years been increasing very heavily; it comes into direct competition with Southern cotton and Southern cotton goods. The importations of jute, raw and manufactured, have grown from 260,000,000 pounds in 1892 to an average of about 900,000,000 pounds of recent years. While the complete figures of the total shipment of jute burlap are not available, most of the shipments are made from Calcutta and the shipments from that point to North America have increased from 66,000,000 yards in 1894 to an average of largely over 1,000,000,000 yards for the last five or six years. Jute burlap comes in direct competition with manufactured cotton products of the South, and thus deprives the cotton manufacturer and the cotton-grower alike of a fair degree of protection.

"Some years ago, one of the leading jute manufacturing companies of this country, having several large plants in different sections, announced that it had decided to abandon one of its plants here and establish one in Calcutta, giving as its reason for doing so that it could secure labor in Cal-

cutta at 16 to 17 cents a day, stating, however, that that was a higher price for labor than the rates which prevailed before the World War and that probably a lower price would be obtained later on, and yet our American people with their higher standard of living due to higher wages are expected to compete with such Oriental wages.

"Mr. Charles P. Perin, a prominent American engineer who was, and is still, the manager of a great steel plant in India, in an address before the American Iron and Steel Institute several years ago, stated that in his India plant he was employing about 8000 hands, and that the average rate of wages, including skilled labor, was between seven and eight cents a day. Three years ago, Mr. Perin in an address before the Foreign Trade Council, stated that the average wages in his plant had been advanced to about ten cents a day, but that the chief owner of the plant had protested that these rates were too high.

"Cement made in European countries at wages less than one-third of the wages paid in American cement plants, not only comes into this country free of duty, but is often brought almost as ballast on ships seeking outward cargo from the United States. By reason of this situation, this foreign cement comes in direct competition with American-made cement and in many cases supplants it, even though the difference in the price is triflingly small. This great industry giving employment to many thousands of people and paying good wages to them is thus handicapped by a foreign product made with what America would call 'starvation wages.'

"A few years ago, a Virginia iron company wrote me that it had imported India iron laid down with duty paid in Virginia, at a price which was about \$2 a ton lower than the actual cost of making pig iron in Virginia, though that state has vast stores of coking coal, iron ore and limestone.

"The unprofitable price of cotton caused Southern growers several years ago to turn their attention to peanut raising in many sections where they could be grown to greater advantage than cotton. This industry, however, was for a while seriously injured by the heavy importation of peanuts raised in China and Manchuria, and brought to this country at a lower price than Southern farmers could possibly raise them. One illustration worth mentioning is that a Japanese steamship paying the low rate of wages that are given to Japanese seamen, landed at Jacksonville a full cargo of Manchuria raised peanuts where the producers get but a few cents a day.

"Some of our iron and steel men seeking even higher duties on their finished products are protesting against duties on manganese, a necessity in the manufacture of steel, while manufacturers of other articles in which oils and fats enter, are seeking protection on their product but oppose a protective duty on the beans and oils and fats which come from the Orient.

"There are many minerals in the South as well as in the

rest of the country, which could be developed to the larger employment of labor and to the greater prosperity of the whole country, if they were given a fair degree of protection, but billions of unutilized wealth in such resources remains latent in the ground because these minerals cannot be mined to a profit under present conditions. Of Southern clays and kaolin, there is an almost unlimited quantity, the development of which would greatly enrich the South and the nation.

"In calling your attention to these few facts in regard to the tariff situation, I trust that it may be in accordance with your views to see that agriculture, minerals and industry are all safeguarded against the competition of those products from other lands, produced at wages which would mean starvation to American workmen and a general breakdown of our standard of living.

"The manufacturer who seeks a protective tariff on his finished product should not demand the right to import his raw materials free of duty from countries where the rate of wages is on a starvation basis as compared with American wages. I believe wholeheartedly in a protective tariff, but I believe that that tariff should cover every line of agriculture, mineral and manufacturing interests, or else that there should be no protective duty on anything.

"It has always seemed to me that the manufacturer who seeks a duty on his product, but fights against a duty on the product of some other man whose material he uses, or opposes a tariff on agriculture, displays a degree of selfishness that has been largely responsible for the feeling that has existed among millions of American people that our whole tariff business is based on selfishness. Broad statesmanlike views by our great manufacturers in favoring a universal tariff, or no tariff at all, would soon banish from our country the thought that the tariff is essentially selfish and for the benefit only of the manufacturers."

### SOUTHERN CLAY PRODUCTS MUST HAVE TARIFF PROTECTION.

Atlanta, March 15.

*Editor Manufacturers Record:*

It is essential that Southern chambers of commerce and other effective organizations immediately wire or write Chairman Willis C. Hawley, Committee on Ways and Means, and Representative Henry W. Watson, chairman subcommittee on Schedule 2, urging a tariff of \$3.75 on white china clay or kaolin. They should emphasize the ability of Southern clay producers to fully supply paper and pottery industries with as high quality clays as can be imported from England, and therefore they should be adequately protected in their natural home markets.

Also, they should advise that the South expects that favorable consideration be given not only to clays, but also to Southern mineral industries not adequately protected under the present tariff. The American Mining Congress has filed a brief relative to this matter, with the committee, and is supplying copies today to all the principal Southern papers.

Quick action by all interested parties is essential, because, should this matter fail, the great clay industry now developing in the South will receive its death blow.

HENRY M. PAYNE,  
Secretary Southern division,  
American Mining Congress.

We cannot too strongly press upon the South the very great importance of aggressive work for full protection to its so-called raw materials of clay, manganese and minerals generally. Many consumers of these products are working to secure free trade on these, while demanding protection for their products. The MANUFACTURERS RECORD insists upon a protective tariff for all or for none.

### THE FEDERAL RESERVE BANK AND THE CREDIT SITUATION.

GUY M. WALKER, whose article in the MANUFACTURERS RECORD of February 28 on the present financial situation has attracted much attention, in the course of a letter to the editor of this paper, writes:

"Mr. McFadden, chairman of the House Committee on Banking and author of the last revised Bank Act, in an address before the New York State Bankers Association, declares that the chief problem of the banks today is 'what to do with the surplus money in the country.' If this is true, and it is, why does the Federal Reserve Board pretend there is any shortage of funds for industry and commerce? The editor of the London Economist in a short cabled item to the New York Evening Post recently said: 'Europe will be obliged to disregard the American 5 per cent official rate and concentrate on real money and the real discount rate in New York.'

"Just before I left New York, I had a revealing interview with the manager of a large business. His company, he said, carried usually about \$150,000 necessary working capital but for the past year they have had \$400,000 cash on hand and had lately increased this to \$500,000, which they had been lending in the call money market. A week earlier, he had called up their bank and instructed it to lend \$100,000 that day at 9 per cent on call. The bank official replied: 'I don't know whether I can get you 9 per cent or not; the quoted rate means nothing, but anyhow don't you know what the law on usury is?' He replied: 'Yes, I know the law on usury but did not know that you bankers ever thought of it.'

"He went on to tell me that ordinarily this money would have been distributed in dividends and the stockholders left to make their own investments, but call money has been so high and they have been making so much profit by lending their surplus cash, that they have deferred distributing it in dividends and taken advantage of the high rates resulting from the Federal Reserve Board action. When call money drops below 5 per cent they will quit their lending and distribute their surplus funds among their stockholders who then will be looking for investments.

"This is typical of what all the prosperous companies are doing and explains why the Federal Reserve Board cannot win. It is wrong and I feel that it has deliberately deceived the country as to conditions."

### NO INCOME TAX AND NO INHERITANCE TAXES IN ALABAMA.

THE Arkansas Gazette of Little Rock, in commenting on a full page advertisement in the MANUFACTURERS RECORD, setting forth some facts in regard to the rapid development of industries in Alabama, says:

"This advertisement is published by the Alabama Power Company and last year the company published a series of advertisements inviting industries to that state, which, invariably, used as a slogan: 'No Income or Inheritance Taxes in Alabama.'"

The advertisement to which the Arkansas Gazette refers stated that during 1928, 38 new manufacturing plants, representing a capital investment of \$35,000,000 and to employ 8500 people, were established in Alabama, and the annual payroll of these concerns, it was reported, will aggregate \$7,800,000 and will materially benefit business and help Alabama farmers.

That was the record as reported for 1928, but for 1929 it will be possible to report far greater results, for the enterprises announced since the first of the year as established in Alabama will represent when fully completed as much money as the total of the industries established during the entire year 1928. Things are moving rapidly these days, and there is no foretelling the development of any state in the South where the business interests are alive to the opportunity.



## Protection at One Stroke for Planters and Manufacturers of Cotton.

FOR the five consecutive years from 1923-1927 our imports of jute bagging have run well above 1,000,000,000 yards annually. Our total production of cotton goods in comparable grades in 1928 was 976,000,000 yards, or considerably less than our imports of burlap. These jute imports have increased from 66,426,200 yards in 1894 to 1,052,650,612 in 1927, an increase of over 986,000,000 yards, or 1485 per cent.

"The mills making the coarse cotton goods have struggled in vain to meet the ever-increasing competition of this foreign fiber spun and woven in a foreign country," says Leavelle McCampbell, a prominent cotton manufacturer of the South. "[The Southern mills] have grabbed for New England's fine yarn trade. New England has suffered. New Bedford has dragged through the misery of a strike. Coarse and fine mills alike have usurped the business of the converter. In an effort to salvage some slight return, many of them have gone over the heads of the jobber to the retailer. The cotton planter has picked up his share of the burden in a carry-over that need never have been. As a consequence, the first bountiful crop in years broke cotton to half its normal value. Weak units have been driven to the wall. Fine old houses have liquidated rather than continue a losing fight. Make no mistake, this tide of jute is lapping at the doorstep of everyone in the industry. A billion yards and still rising!"

This graphic description of the fashion in which the pressure felt by the coarse goods mills spreads in both directions, to cotton planters on one side and the manufacturers of the finest and sheerest of cotton goods on the other, is written by a man who, as owner of several Southern mills and jobber for mills in both sections, has a comprehensive view of the industry.

The men who cultivate the jute fiber in India work for 16 cents a day. The women who strip it from the stalks receive as their wages nothing but the bark and cores, which they take home for fuel. The operatives in the jute mills, built and operated in India by American firms and equipped with machinery taken from dismantled American jute mills, receive an average of \$1.80 per week, or about 30 cents per day.

Is it reasonable to expect American farmers to raise cotton in competition with the pauper labor of India? Can we imagine the women of our Southern farms tolling day after day to pick cotton for no wages but the bare stalks?

"Almost alone agriculture and textiles have lagged behind during a period of prosperity surpassing anything America has known," says Mr. McCampbell. He then points out the fact that whereas many formulas have been proposed for helping the farmers, the weakness of most of them lies in the assumption that any one plan will aid all classes of farmers, whereas so many factors are involved that help must come through many lines of action. If we can increase the demand for the cotton we now produce, we will necessarily increase its price, and our farmers will profit accordingly. "If within our borders," says Mr. McCampbell, "we find a wider market for a textile crop we now produce, and on its way to the consumer it occupies machinery and operatives now idle, the farmer will be helped still further, for these operatives will have to be fed and clothed and that business, too, will work back step by step to the farmer."

The protective tariff is the simple remedy that lies at hand. Mr. Hoover has said:

"Many factors enter into a solution of this whole problem.

One is by the tariff to reserve to the American farmer the American market; to safeguard him from the competition of imports of farm products from countries of lower standards of living.

"Adequate tariff is essential if we would assure relief to the farm. The first and most complete necessity is that the American farmer have the American market. That can be assured to him solely through the protective tariff."

The tariff situation by which jute fabric is enabled to drive American cotton out of American markets is a classic of absurdity. The raw jute comes in free. Jute yarns pay a tariff that varies from 15 to 35 per cent, while jute fabric like the crude jute, pays no tariff. When this schedule went into effect, the American companies making jute cloth in this country from imported fiber or yarn merely dismantled their mills, shipped their machinery to India, and proceeded to set it up where labor cost one-tenth of what it cost here. Thus they not only left their own former operatives jobless, but they have since been able to sell jute in this country at prices that, as has been shown, drove many American cotton mills out of business. Says Mr. McCampbell:

"The mills making these cloths have struggled in vain to meet the ever increasing competition of this foreign fiber spun and woven in a foreign country. Their warehouses are choked with goods. They have had to run short time. Thousands of their people have walked the streets out of work. Their shareholders have had to forego dividends while the cotton they might have consumed hangs over the market to depress further the prices, already low, that hard-working farmers have had to accept for their toil and trouble."

Trace briefly the effect of the schedule admitting jute fabric free. The mills formerly making the fabric moved their machinery to India, leaving their own employees in this country jobless. The jute bagging made in India closed American cotton mills and depressed the price of American cotton, reducing the buying power of our domestic market, thereby hurting all the intricate fabric of American industry.

To remedy the situation, Mr. McCampbell proposes a tariff based on the conception that there are four distinct manufacturing steps involved; that the pauper labor of India competes at every step with American labor, and that each of the four manufacturing steps, or groups, in this country, must be protected. First, he says, the farmer is a manufacturer, using seed as his raw material, land as his plant, farming implements as his equipment. He employs labor, pays wages. Cotton is his finished product. The farmer's finished product is the raw material of the spinner; the spinner's finished product is the raw material of the weaver, and the weaver's finished product is the raw material of the bag manufacturer. Further:

"In building up a sound jute schedule, these facts must be recognized, for how can the American farmer sow and reap. How can the American spinner purchase from the American farmer unless their markets are protected from the Indian farmer and spinner? How can the American weaver buy from the American spinner unless his cost differential over the Indian weaver is recognized and protected so that he can remain in business? The same rule applies to the bag manufacturer, for how can he make bags from American cloth unless the bags carry the tariff on jute, plus the protection granted the spinner, plus the protection granted the weaver, plus the added protection necessary to his own industry?"

We believe the use of cotton bagging where now more than a billion yards of jute bagging are consumed annually would make a better price for the staple, provide more employment for American workers, ease the burden of overproduction on all grades of cotton goods, and by increasing employment and prosperity in those two allied industries, the planting of cotton and the milling of cotton, send out a proportional impetus to the prosperity of the country.

## FREEDOM FROM TAXATION FOR NEW INDUSTRIES.

SECRETARY FISHER of the National Association of Cotton Manufacturers, in an address in Nashua, N. H., referring to the tax situation, which is one of the burning questions of the day in all parts of the country, offered as one reason why cotton mills are leaving New England for the South the fact that in some Southern states the mills are relieved from taxation for five or ten years.

There is a general disposition in the South to give freedom from taxation to new industries for five years or more and this has acted as a magnet to draw many important enterprises into the South.

Mr. Fisher in his statement said:

"The tax situation in the textile industry is serious and is one of the factors where the states and cities in New England can be of considerable assistance if they are interested in retaining the industry. There seems little realization on the part of many tax assessors of the need of making an equal distribution of the tax burden. It apparently has been assumed that the mills could always absorb any increase in taxes necessary to make the city or town budget balance.

"An illustration of what local taxes may mean is shown by the experiences of one of our New England mills, which pays about \$110,000 a year in city taxes. One of the Southern communities has for a number of years been trying to get them to move their mill South, and offer as one of the inducements free taxes for a period of ten years. You can well realize what a temptation it might be to the mill to move, as the saving of more than \$1,000,000 in taxes in the 10-year period would enable them to start over again with new buildings and the latest in new machinery."

The suggestion made that by relief from taxation for ten years a cotton mill established in the South would be able at the end of that period to erect new buildings and equip with new machinery out of the amount saved on taxation is very important and is worthy of further consideration.

## CHINA'S LIMITLESS POSSIBILITIES FOR TRADE OF VITAL INTEREST TO AMERICA.

JULEAN ARNOLD, commercial attache at the American Legation, Peking, China, sends to the MANUFACTURERS RECORD an interesting double card entitled "China, Through the American Window." A map of the United States is laid, in this card, over a map of China, and still there is left a space of over 1,000,000 square miles, China being that much larger than the United States.

That marvelous country has a population estimated at somewhere in the neighborhood of 400,000,000, but six-sevenths of its population is concentrated in one-third of its area, due mainly to lack of railways. In lighter vein, a well known statistician once said that if all the people of China could be induced to add one inch to the length of their shirts it would tax the capacity of the South to supply the additional quantity of cotton needed.

The entire country, but pre-eminently the South, has a vital interest in everything that concerns the progress and prosperity of China, for if ever its 400,000,000 people awake to full utilization of its resources, to the building of railroads and highways and the uses of modern equipment of Western civilization, there will be created an enormous demand for the products of this country and the world's wealth will be enormously enhanced, for when China makes this move India and other countries will promptly follow.

The card sent us by Mr. Arnold presents the following striking facts, showing China's backwardness in economic de-

velopment in contrast with the progress in the United States.

	China	United States
Railway mileage	10,000	250,000
Railway mileage (per 10,000 inhabitants)	2.5	46
Railway mileage (per 1000 sq. miles)	2.3	84
Motor vehicles	30,000	23,000,000
Number of persons per motor car	18,000	5
Number of telephone instruments	100,000	17,000,000
Number of persons per telephone	4,000	7
Miles of telegraph lines	84,000	1,925,000
Per capita iron and steel consumption	1	185
Per capita foreign trade, in gold	\$3	80
Per capita, estimate of mechanical slaves	.75	30
Percentage population in agriculture	80	35
Percentage school age children in school	8	90

The concluding paragraph says:

"Physically, China and the United States have much in common. The two countries lie between pretty much the same degrees of latitude. Thus China possesses many of the development potentialities of the United States. In man power, China is richer than America. As modern economic developments progress in China, we shall witness a rising tide of increased consumption on the part of the Chinese masses, hence greater markets for the products of American manufacturers."

## Improved Highways and Portable Equipment Factors in Extending Lumbering Operations of Smaller Tracts.

"Portable sawmills and improved highways are making it possible to carry on extensive lumbering operations in virgin tracts throughout the Southern states that heretofore have been inaccessible due to the distance from railroads," declares R. F. Carr, head of the R. F. Carr Lumber Co., Memphis, who says that the cut of Southern pine and hardwood in the immediate future will continue heavy because of the great output in the aggregate of these small mills. In a further discussion of the subject Mr. Carr said:

"An idea of how these mills are operated may be gained by pointing out just how our company is now operating. For instance, we have a tract containing possibly 150,000,000 feet of timber in Winston County, Ala. The most convenient rail point is at Jasper so there we have set up a finishing mill. Once the logs are cut they are hauled on wagons to the site in the timber where we set up our portable mill, which is so compact and easy to handle that it can be dismantled and removed to a new site and set up in one day. Here the logs are cut into lumber, which is loaded on automobile trucks and carried say 20 to 30 miles to the finishing plant at Jasper, where it is sized or surfaced and put through the kilns or stored in piles as may be necessary. In this way we eliminate the hauling of any waste wood and sawdust, as would be the case if we transported the logs all the way to the finishing mills. This method has been so successfully employed that we plan ultimately to own timber lands with 750,000,000 feet of lumber on them, and will follow this method in producing it.

"As highways are extended to new sections in the South, they will make possible the installation of these portable mills to cut comparatively small tracts of timber on individual farms, and also to work sizable tracts that have never been cut previously because of their distance from rail lines. So despite closing down of some big mills the output of Southern pine and hardwood will continue heavy for many years, due to newer methods now made possible by improved roads.

"So far as we are concerned business is very satisfactory. Prices are better than they have been, and indications are that the railroads will buy larger quantities of lumber this year than for some years past. Possibly 70 per cent of the lumber we produce and sell is pine, the remainder hardwood, and we operate in Alabama and Mississippi. The outlook is bright.

"I feel that the man who keeps pace with developments in his particular business and doesn't drift with the current but goes forward is going to find business good. The man who doesn't institute new practices as dictated by business judgment to meet the new developments is simply going to have to give up. We are endeavoring to eliminate selling expense by going direct to the large consumer, and have achieved excellent results."



# THE PORT OF BALTIMORE—

*Rich in Years, in Commerce,  
in Industry and in Vision.*

By G. H. POUDER, Director, Export and Import Bureau, Baltimore Association of Commerce.

*The foreign trade through Baltimore in 1928 was valued at \$226,000,000. The city is the second Atlantic Coast port in foreign trade volume and the second American port in import tonnage. Thirty-eight states ship through Baltimore and 33 states receive imports through the port which has shipping connections with 65 countries. More than 6,000,000 tons of exports and imports are handled yearly and the total water-borne commerce amounts to about 12,000,000 tons.*

By its heritage from the past and its predominant position in modern commerce and shipping, the Port of Baltimore is eminently qualified to be the meeting place for the sixteenth annual convention of the National Foreign Trade Council, which will assemble in the city on April 17-19. It is the climax of more than 200 years of Baltimore maritime progress and export and import expansion, a growth which has gone hand in hand with that of the nation.

Baltimore has always looked seaward and its trade and shipping has been at all times a controlling force in the city's economic life. The original location of the city was determined by its shipping interests and the port has continued through the years as Baltimore's greatest single asset. It brings an intimate association with all sections of the American domestic seaboard and with the great industrial and shipping areas of the North, the South and the Middle West. It gives Baltimore international as well as national boundaries, it is a friendly link with the world and knits the city with the Seven Seas and the strange, rich countries which surround them.

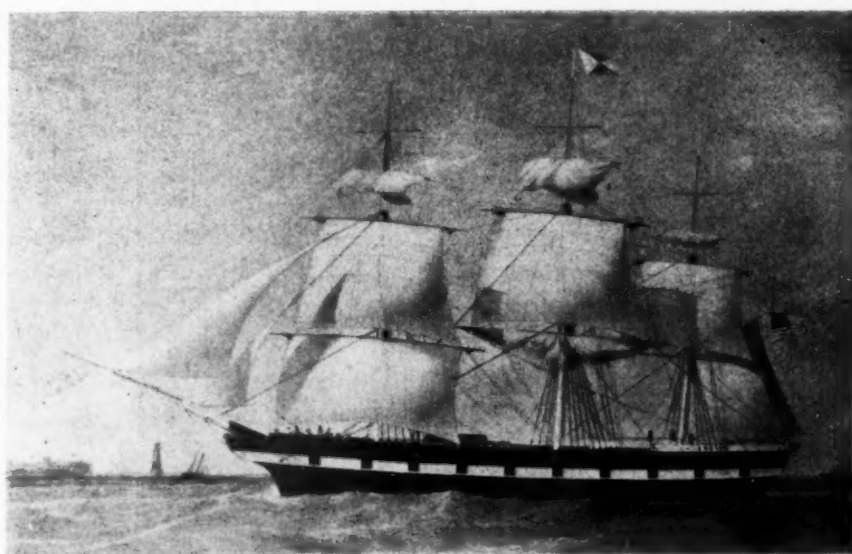
Baltimore has served international commerce for 225 years. As early as 1689, eighty vessels owned in Maryland were in service to England, carrying about 25,000 hogsheads of tobacco to that country annually. In 1706, the General Assembly of Maryland officially designated Whetstone Point, now Fort McHenry in Baltimore harbor, as a port of entry, and laid the foundation for the centuries of trading to follow. In 1729, the Assembly authorized the establishment of Baltimore Town on 60 acres of ground. Four Baltimores were established, and the one which survived was located at the head

of the inland sea which combined the shortest land route with a favorable sea route—the point where the Atlantic Ocean pierces nearest to the heart of the continent.

The original settlers of Baltimore were rich in vision. They had the venturesome spirit of early foreign trade. They knew the sea and instilled a love for it in the rising generations. Baltimore built fleets of vessels and wharves and docks, and its ships extended their trading to every sea. Before the Constitution was adopted, Baltimore ships were in China loading cargo. By 1796, Baltimore's exports were worth \$12,000,000 a year; its merchants owned 100 vessels of 13,000 tons, and its annual shipping reached 60,000 tons. Most of the old fortunes of Baltimore were established by ships and shipping. Says a historian, "A larger proportion of men of wealth and property in commercial affairs is contained in Baltimore than in any of the seaport towns."

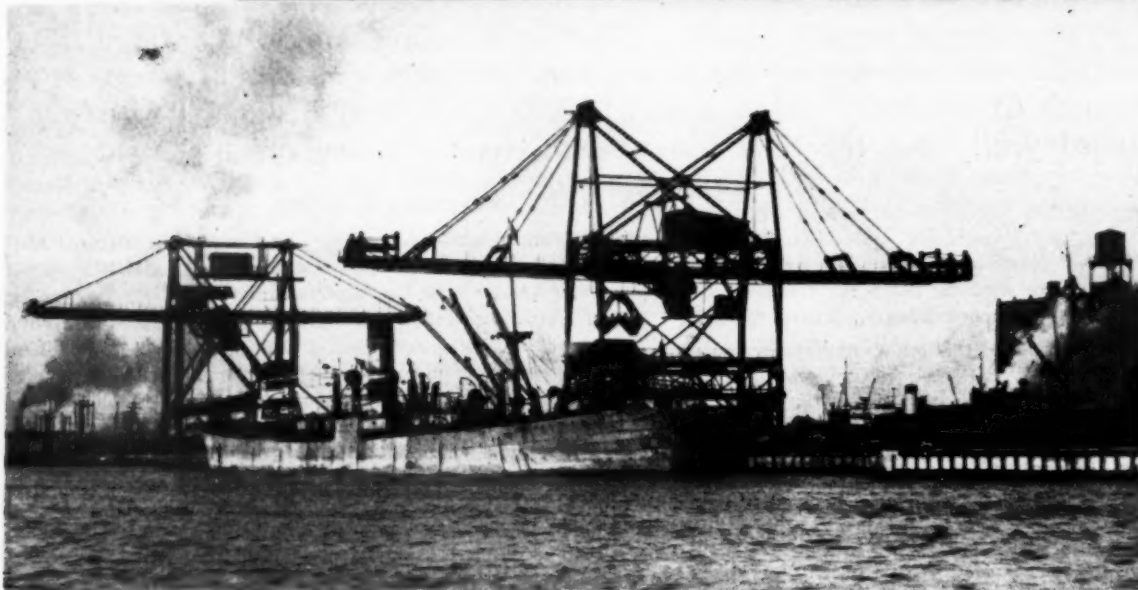
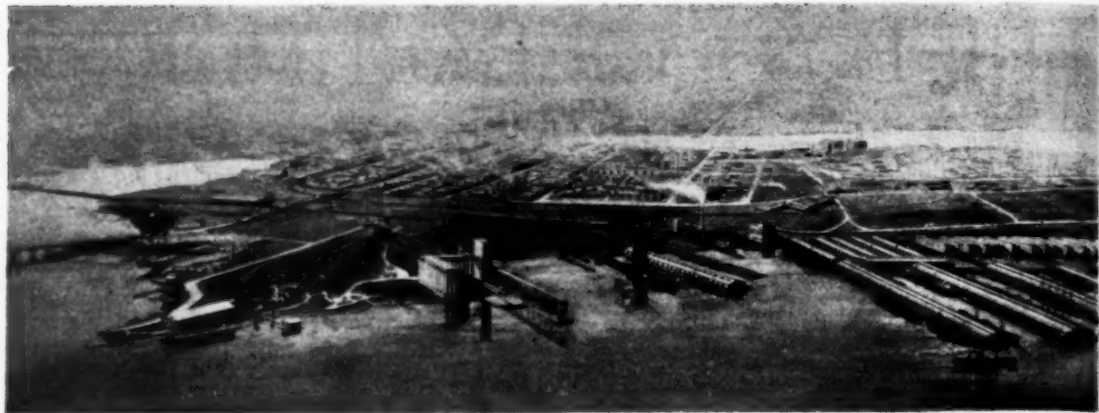
In the early days, vessels from the Patapsco River, now Baltimore harbor, began to trade with the West Indies and with Central and South America. Toward the middle of the Eighteenth Century, the China voyages began and the old Canton section of the port derives its name from that period. Pioneer Baltimore traffic in tobacco, grain, flour and fertilizers established the national traffic of the United States in

these commodities with Europe and Latin America. During the period between 1790 and 1815, the Napoleonic wars interfered with neutral shipping and threatened to destroy the European commerce of Baltimore and other American ports. This condition brought forth the "Baltimore Clipper" type ships, first designed and constructed at St. Michael's, Md., and built for speed rather than for carrying ca-



THE "F. W. BRUNE," ONE OF THE EARLY CLIPPER SHIPS FOR WHICH BALTIMORE WAS FAMOUS.

Western Maryland Grain Elevator, Coal Pier, and Terminals. Proposed new Piers at Right.



Baltimore and Ohio Terminal Facilities Showing Cottoman Cranes, Holding World's Record for Unloading Ore.

Twenty-eight Ships Docked at One Time at Baltimore and Ohio Locust Point Terminals.



Huge Coal Pier of the Baltimore and Ohio at Curtis Bay.





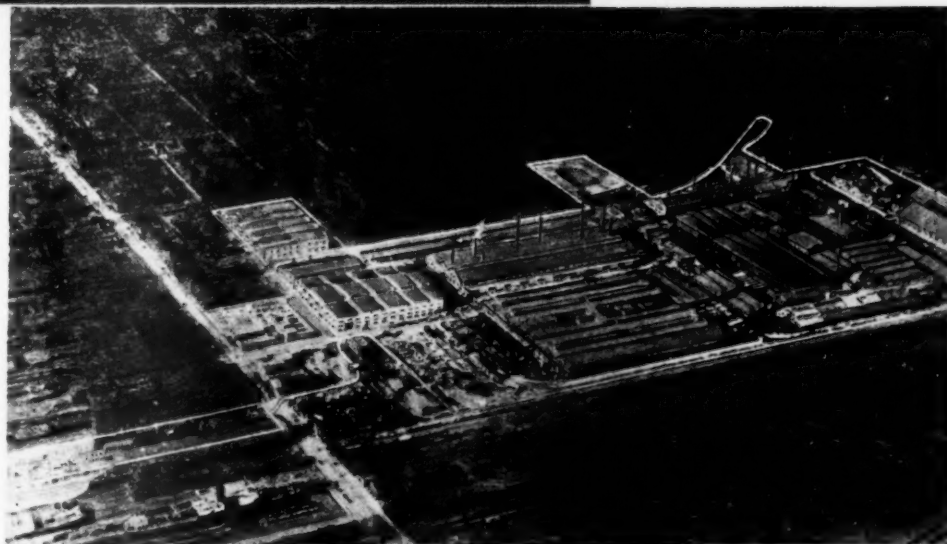
**Sparrows Point  
Plant of Bethle-  
hem Steel Com-  
pany, World's  
Largest Deep-  
Water Steel  
Plant.**

**Drydocks at  
Shipbuilding and  
Marine Repair  
Plant of the Beth-  
lehem Shipbuild-  
ing Corporation,  
Sparrows Point.**



**Canton Company  
Terminal Show-  
ing Open and  
Covered Ocean  
Piers, Waterside  
Warehouses and  
Ore Pier With  
Cranes.**

**Immense Copper  
Plant of the Bal-  
timore Copper  
Smelting and  
Rolling Company.**



capacity. These vessels with their long, low, graceful lines, lofty topsails and superb sailing ability were able to outdistance the ships of Great Britain and France and to maintain the desirable European trade that the United States had developed.

Baltimore's port trade with Europe, Asia and Latin America continued to expand up to the outbreak of the Civil War. In 1861, much of this trade being conducted by local interests who also owned the carrying vessels. During the war Baltimore was a shipping gateway of strategic importance, although communication with the Central West was for a time interrupted by seizure of the Baltimore and Ohio Railroad lines by the Federal Government. After the Civil War, Baltimore's shipping activities entered another period of expansion, with the inauguration of new and additional steamship services and in 1877 the port's commerce was valued at \$62,025,641, and 921,131 net tons of shipping entered the harbor. Breadstuffs, oils, tobacco, seeds, wood, leather, wool and cotton were prominent exports in those days, while imports were featured by coffee, sugar, molasses, soda, guano, hides, salt, sulphur, textiles and fruits.

Many of the influences which have helped Baltimore to its present shipping position were effective in those days of 50 years ago. The geographical location of the port, nearer the great production and consumption territory of the interior than any competing port, was then, as now, a factor in making it a natural port of entry and shipment for a large portion of the country. Other basic assets included the port's proximity to the wheat and coal regions of Maryland, Virginia, West Virginia and Pennsylvania, and proximity to the foreign markets of the West Indies and the rest of Latin America. Then, as now, Baltimore was an important distributing center, jobbing and wholesale houses having firmly established the city as a market of first importance for the states south of the Potomac and Ohio Rivers, and for the Middle West. Then, as now, Baltimore was the most western of the eastern ports, the most northern of the southern ports and the most southern of the northern ports.

During the World War, Baltimore was one of the country's great shipping centers, and the advantages of its port were brought more prominently than ever to the attention of the shipping communities of the United States and of foreign countries. This gave the flow of its waterborne commerce a momentum and volume which have steadily increased.

What has been the recent growth of this Baltimore port commerce and what is its status of the present? In 1913, its exports and imports were valued at \$152,000,000, and in 1928 they were worth \$226,000,000. It has risen to second Atlantic coast port in foreign trade volume and second American port in the tonnage of imports alone. It has become the great bulk cargo concentration port of the United States, a favored gateway for the routing of general merchandise, and one of the most efficient and economic of all harbors. Thirty-eight states ship exports through Baltimore and 33 states receive imports through this port. More than 6,000,000 long tons of export and import cargo move through Baltimore yearly and about 12,000,000 long tons in all waterborne trades. Aggregate port business is valued at approximately \$750,000,000 annually. The port trades with 65 countries on every continent and its ocean piers are a great international mart for the exchange of their commodities. More than 100 major export and import commodities use the routing facilities of the port of Baltimore. The port is receiving greatly increased patronage from leading American export shippers and large percentages of the world demand for finished and semi-finished American manufactures, and for bulk raw materials, seek Baltimore shipment. Prominent among such export cargoes are iron and steel manufactures, copper, chemicals, fertilizers, refined oils and greases, lumber, tobacco, starch, glucose, grain, coal, roofing materials, tinplate, packing house goods, wax, cement, oatmeal, flour, pipe, machinery, agricultural implements, electrical goods, and many others.

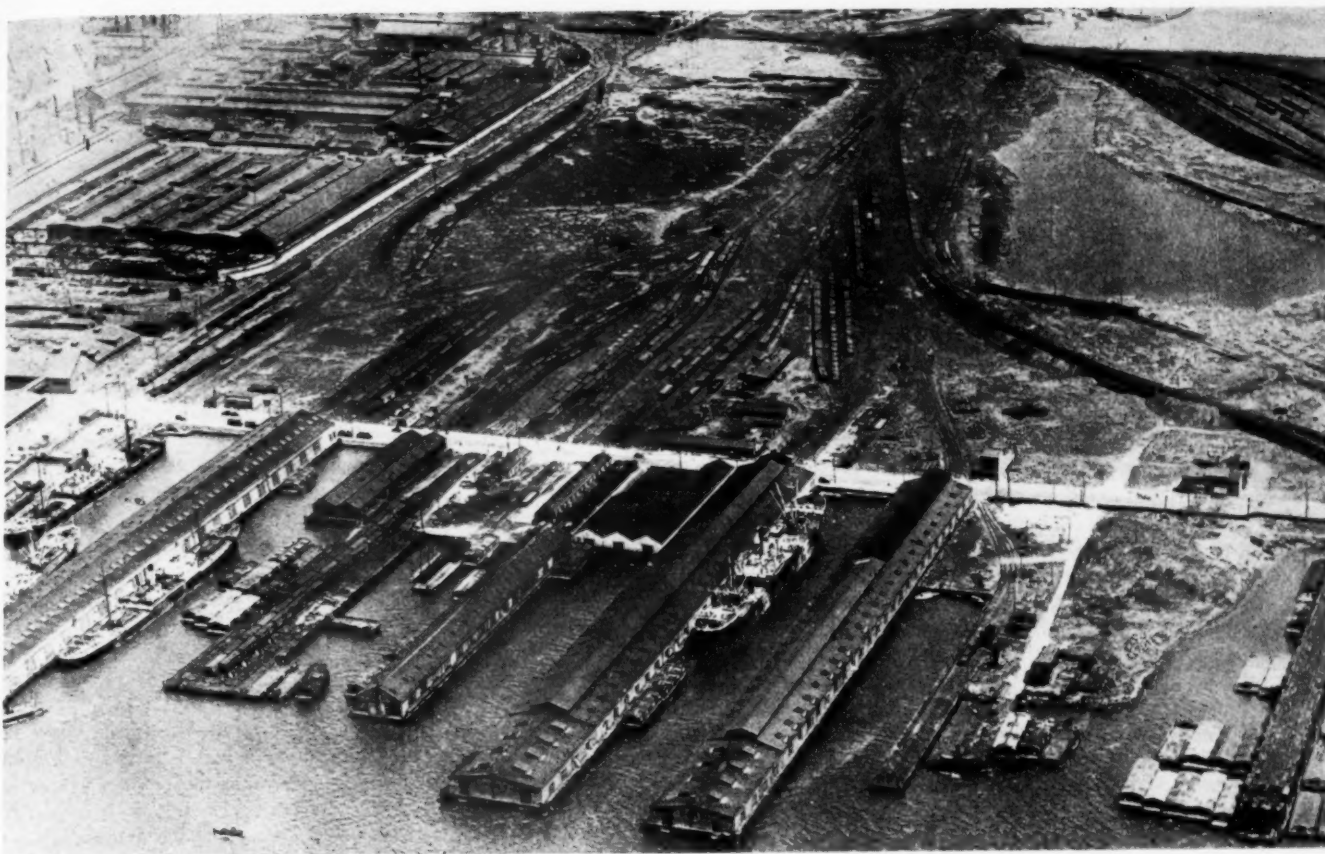
Baltimore's import traffic, originating on all the seas of the world, has shown remarkable growth. In outstanding volume

are the six great ores from Asia, Africa, Europe and Latin America—iron, manganese, chrome, pyrites, magnesite



THE INSET PRESENTS A DRAWING OF BALTIMORE IN 1855. THE AIR VIEW SHOWS A PORTION OF THE BALTIMORE WATERFRONT AS IT APPEARS TODAY.





MERCHANDISE PIERS OF THE PENNSYLVANIA RAILROAD COMPANY IN CANTON SECTION.

and copper; woodpulp from Scandinavia; sugar from the West Indies and the Philippines; coffee, hides, bark, extract and dried blood from the east coast of South America; fertilizer materials from South America, Europe and the East; crude oils and gasoline from Mexico and South America; rubber from the Far East, and teas, spices, copra, jute and egg products from the same district; fruits from the West rubber from the Far East, and teas, spices, copra, jute and pepper from the Orient; olives, oils, marble, cherries and cork from the Mediterranean; paper, seed, rags, limestone, clays, pebbles, matches, meal, cellulose, fluorspar, whiting and fish from Europe, and molasses from the Indies. A spectacular growth also has occurred at Baltimore in imports of general manufactured goods from all parts of Europe: Toys, dolls, china and glassware and an array of Christmas and Easter merchandise from Germany, Holland, Belgium, France, Czecho-Slovakia, Austria and England, and from the East. Much of it is for local Baltimore consumption but a large tonnage moves inland throughout the interior of the United States.

While Baltimore is the seaboard gateway for the interior of the United States, the city has in addition a large and growing foreign trade of its own. In the city and along the harbor waterfront there are 350 active exporting concerns and 225 conducting an import business—more than double the number of houses engaged in such trade 10 years ago. They deal with all sections of the world and their shipping activities are an important element in port progress.

The direct meeting of railroad and steamship lines at Baltimore provides an effective distribution and assembly point. Baltimore is rapidly becoming one of the largest industrial waterfront cities in the country, and is second only to New York in the extent and variety of its basic waterside industries. The development of these industries has had an important influence on shipping. With piers and warehouses of their own, they ship and receive huge quantities of ores, iron and steel manufactures, copper, tin, lumber, chemicals and

fertilizers, sugar, molasses, canned goods, petroleum and other raw and manufactured products. Baltimore's industrial production is valued at \$700,000,000 annually, and many of its plants are the largest and most modern of their kind.

Baltimore conducts its great overseas commerce with 38 steamship lines, operating vessels on schedule to all important world markets. Direct sailings are offered to all important ports of Germany, Holland, Belgium, France, the United Kingdom, Italy, the Scandinavian countries, and the Near East. Its ships are in continuous service to both coasts of South America, all parts of the West Indies, China, Japan, Australia, Hawaii and the Straits Settlements. In 1928, 3400 ocean vessels entered the port of Baltimore. The tall ships that nose into Baltimore harbor are the present-day descendants of the great world civilizers; while they do not bring cargoes of "ivory, apes and peacocks," as did the mariners of Tarshish, they do bring a rich variety of merchandise almost as rare and colorful, and take away the products of American fields and farms and factories. East and west, north and south touch shoulders at Baltimore and the city's maritime picture is a true "heritage of Tyre."

Baltimore also has achieved a distinguished position in the growing intercoastal water traffic of the country and now handles more westbound tonnage via the Panama Canal than any other American port. Eight regular steamship lines give the city almost a daily sailing in this trade and their loadings include every variety of manufactured merchandise. Inbound from the Pacific coast, large tonnages of oil, lumber, canned vegetables and fruits reach the port. Eliminating Sundays and holidays, Baltimore has almost a daily sailing in this trade-voyage of more than 5000 miles. A network of coastwise steamship operation links Baltimore with the major domestic ports of the North Atlantic, South Atlantic and Gulf. To the north, there is direct connection with Boston, Providence, New York, Philadelphia, Wilmington, Del., and Camden, N. J. To the south, there is direct service to and from Norfolk, Charleston, Georgetown, Jacksonville, Savannah, St.

Petersburg, West Palm Beach, Miami, Tampa, Pensacola, Lake Charles, La.; Corpus Christi, Beaumont and Galveston.

Port service to cargo and to ships is based on sound fundamental conditions, giving value in return for patronage. It has been said by a distinguished port authority that Baltimore fulfills all requirements for a modern and successful ocean port; these are: Geographical relationship to interior producing and consuming areas, with adequate rail connections; port and terminal facilities, able to handle cargo rapidly and economically; steamship services to essential foreign and domestic markets, and local and nearby industrial plants whose shipping requirements form the basis of port activity.

Along the 127 miles of waterfront, the port of Baltimore offers all the requisite facilities for waterborne trade and shipping. There are open and covered piers, accommodating 88 vessels simultaneously and with aggregate pier space of about 3,000,000 square feet. In the upper harbor for coastwise and bay shipping there are 10 municipal piers with area of 1,267,742 square feet. Overseas, intercoastal and coastwise vessels are offered 90,500 lineal feet of berthing space. For temporary and longtime storage there are 20 waterfront warehouses. In the railroad terminal yards there is ground storage for 10,455 cars of freight. Three trunk-line railroads and one local connecting railroad serve the port and operate large marine terminals of their own, these including the Locust Point and Curtis Bay terminals of the Baltimore & Ohio Railroad, the Canton terminal of the Pennsylvania Railroad, the Port Covington terminal of the Western Maryland Railway and the Lower Canton terminal of the Canton Railroad. All have impressive ocean pier and warehouse groups, while each trunk-line operates a coal-loading pier and modern grain elevator. Specialized equipments for handling grain, coal, ores, sulphur and other bulk commodities are among the largest and most scientifically operated and many of them hold loading and discharging records. The grain elevator capacity of the port is 12,550,000 bushels, and 105,000 tons of coal can be loaded in 10 hours. Ore has been discharged at the rate of 3900 tons in seven hours. There is also specialized equipment for handling oil, sugar, fertilizers, chemicals, molasses, fruit and many other commodities.

The harbor of Baltimore has 16 shipbuilding and repair

plants. There are superior coal and oil bunkering facilities in the port, stable labor conditions, and continuous police and fireboat protection. Towage and lighterage facilities abound. Cargo transfer between railroad and water is by direct delivery from car to ship or by short lighterage movement at minimum time. There is entire absence of necessity of cartage transfer for rail and water cargo at the port. In rounding out its trade and shipping picture, Baltimore offers full foreign consular service, direct export and import financing by sound banks, and efficient freight forwarding and customs brokerage service. The port recently was granted a new Marine Hospital, to cost \$1,620,000.

Channels from the heart of Baltimore's port to the sea are of minimum 35-foot depth and 600-foot width and a local program now under way calls for substantial increases in both channel and anchorage dimensions. A new deep-water anchorage has just been approved by the War Department. The municipality of Baltimore is planning a large program of civic port development, involving the eventual expenditure of \$50,000,000 for new piers, warehouses and other harbor facilities. The first \$10,000,000 installment of this amount has been voted by the citizens and under its provisions the Port Development Commission is engaged in new terminal construction for the Western Maryland Railway in the Port Covington section of the harbor. The city is also giving attention to the new commerce of the air and is building a modern and extensive airport midway on the north shore of the harbor. It will combine land and water facilities for all types of planes and aircraft, and construction has begun on the first unit, of 360 acres. The airport will be enlarged to 1000 acres as the demand for additional space arises.

Baltimore's greatest port and foreign trade event of this period will occur in the National Foreign Trade Convention, for which a stimulating and practical program of matters dealing with foreign trade and shipping has been arranged. Among the items of entertainment will be an inspection trip of the Port of Baltimore, April 18, and a trip to Annapolis the day following the convention. A special regimental dress parade will be held by the United States Naval Academy for this occasion. Ladies accompanying delegates will be given an interesting program of entertainment.

## Over 2000 Foreign Traders Expected at Baltimore.

This is the most active foreign trade year since the war, the National Foreign Trade Council declares, in announcing the first list of speakers for its 1929 meeting, to be held in Baltimore on April 17, 18 and 19. The Council reports the largest advance registration in its history, with American exports and imports running higher than last year and a record volume of world trade for 1928 showing \$1,000,000,000 advance in world exports over 1927. President Daniel Willard of the Baltimore and Ohio Railroad will be one of the speakers.

As chairman of the Council, James A. Farrell, president of the United States Steel Corporation, will preside and will speak on "World Trade Today and Tomorrow." The use of sales service abroad to promote American products and of advertising as an aid to foreign distributors will be featured by the merchandising sessions as special subjects on which exporters should keep up to the times, and William Werckenthien, president of the Island Export Company of Baltimore, will speak on "Service As a Salesman." Credit Insurance also occupies a merchandising session, with Dr. Grover G. Huebner, Professor of Foreign Trade, University of Pennsylvania, discussing European practice in credit insurance and

Joseph L. Thompson, Yale & Towne Manufacturing Company, Stamford, Conn., speaking on "The Situation in the United States." There will also be a third merchandising session.

Special trade advisers will iron out personal questions in ensuing conferences, in addition to 50 members of the regular staff from every section and virtually every industry of the country which will be on hand.

A graphic demonstration of modern communication, which will be a feature of the Get Together dinner on the opening night, will be directed by Colonel A. H. Griswold, executive vice-president of the Postal Telegraph & Cable Company of New York. It will include a radio call from the banquet hall of the Lord Baltimore Hotel to ships throughout the Pacific Ocean, a land and ocean cable message round South America, marked in its actual transmission on a large map; cable messages to Shanghai, Manila, London and Paris, and a radio telephone address from Berlin by Ernst B. Filsinger, president of the Export Managers Club of New York.

The delegates will also see the port of Baltimore in action on a trip over Baltimore harbor as guests of the Baltimore Association of Commerce, and after the convention they are invited to view the ports of Wilmington, Del., and Philadelphia and the combined ports of Norfolk, Portsmouth and Newport News in Hampton Roads.



# Landing Value of Imports.

## SOME OF THE BASIC PROBLEMS INVOLVED IN FRAMING AN ADEQUATE TARIFF LAW.

By WILBUR F. WAKEMAN, Former U. S. Appraiser of Merchandise, Port of New York.

The writing of a tariff law, which means the rates of duty and the administrative provisions which involve the collection of the duties, is little understood. Every time there is revision of the tariff, more holes are kicked through it by interpretative exceptions in the administrative sections, and jokers are left in it until the result is a great cob-webbed machine which does not run smoothly or operate efficiently for the protection of American industry.

The tariff is simply a tax on foreign products which is supposed, in Protectionist doctrine, to fully represent the difference in cost of production between the foreign and domestic articles; but so many "ifs," "ands," "buts" and "provisos" have found their way into our tariff law that it requires 792 pages of Treasury regulations, with monthly supplements, to administer the law.

In the tariff there are two factors: (1) The rate of duty or classification; and (2) the dutiable value of the merchandise imported, or the basis on which duties are collected.

Most of the duties are a percentage of the value of the merchandise imported or "ad valorem" and these rates of duty are assessed by our present law on the value in the country of origin in five different ways; hence, the foreign producer always tries to find the lowest valuation under which to send his products to the American market. He generally succeeds. To illustrate: Recently the Treasury Department found a case where the foreign goods were valued at \$3000, when upon investigation and admission of the importer the foreign cash value was \$10,000. The rate of duty was 50 per cent, consequently the importer would have paid in duties \$1500, if his false invoice had cleared, whereas he owed and did pay \$5000. I have known of single fraudulent invoices where a small fortune was "grafted" by the importer.

The weakness of the administrative provisions of our Customs Tariff led me to recommend the reformation of dutiable value of imports to the Ways and Means Committee of the House of Representatives in February 1929. Instead of recognizing the values by foreigners in a foreign country as a dutiable basis I recommended that the value of all foreign merchandise when it lands at our ports should be adopted by the Congress as the dutiable value, thus simplifying our tariff system and insuring collection of rates of duty written into the law.

When the Fordney Tariff Act was under consideration in the United States Senate I advocated adoption of "Landing Value of Imports" but foreign valuation prevailed. Not discouraged, I continued to develop sentiment in favor of "Landing Value of Imports" in the United States. This plan had spread abroad and in the winter of 1924 I was called upon by the representative of the British Consul-General at New York for information on the subject. I gathered together what I had in published form and also dictated a memorandum explaining the policy. I heard nothing of the matter until August, 1925, when I received from my London correspondent the new tariff law of Great Britain called, "Safeguarding of Industries" Act. To my great surprise it contained the following:

"Where the rate of a duty of customs imposed by this act on any article is a percentage of the value of the article, that value shall be taken to be the price which an article, if it were delivered, freight and insurance paid, in bond at the port of importation, and duty shall be paid on that value as fixed by the commissioners."

Great Britain had anticipated possible action by our Congress in favor of "Landing Value of Imports."

Being much interested in the effect—success or failure—of

this provision, I applied to my correspondent in London who was in a position to obtain official information, and in reply received the following report which was sent to him:

"The question Mr. W. F. Wakeman asks you in his letter of August 3 is not very specific. He simply asks what is the 'effect of this law in Great Britain.' Of course this law has not been operative for long (since July 1, 1925), but I am informed by the Customs Authorities that they are satisfied with it thus far."

Some may contend that the "Landing Value of Imports" is unfair to the low-cost producing countries, but the present plan is grossly discriminatory against the higher cost producing countries. To illustrate: Take the straw hat cases of 1927, in connection with which (under Section 315) the President increased the rate of duty nearly 50 per cent. These hats, of the same texture and weave from Great Britain, were invoiced at about \$1 each and from Italy at about 35 cents; thus the increased duty of 50 per cent increased the discrimination, because the duty was based upon the foreign values in England and Italy as provided by law. Hence the British manufacturer was practically forced out of the American market, whereas the Italian was given a marked advantage.

The fact is that under our present law the dutiable value of imports—the basis of efficient and honest administration of the Tariff—is almost exclusively controlled by foreign exporters, aided and abetted by the American importers and customs practitioners who are numerous and skillful.

I recommended to the Congress the following:

"Where the rate of duty imposed is a percentage of the value of the merchandise, that value shall be taken to be the value such merchandise commands as if delivered in bond at the port of importation."

It is very similar to the British law and I trust it will be adopted.

With both great political parties in favor of a tariff and a majority of both parties favoring a protective tariff we ought to receive from the 71st Congress the best tariff law in the history of the nation.

## The South Would Be Benefited by Increased Duties on Foreign Clays.

Answering importers of English clays who are opposing increased duties on kaolin or China clay from \$2.50 to \$3.75 per ton, domestic clay producers through the American Mining Congress filed a supplemental brief with the House Committee on Ways and Means in the tariff revision hearings showing that with this increased protection they can supply every requirement of the American market. English clay producers are said to dominate practically half of the American market. The brief shows that contrary to contentions of importers, domestic clays can be and are being used for filling and coating purposes in the manufacture of the highest grades of book, magazine and writing papers, and that representative paper manufacturers in the Middle West are using domestic clays exclusively and competing successfully with manufacturers using English clay.

The brief points out the advantages of the increased protection asked, in the additional number of employees that will be engaged in the domestic industry and the further prosperity that will accrue to North and South Carolina, Georgia, Florida and other Southern states in which clay production will be expanded. The South has extensive clay resources, and if protection is afforded the industry great impetus will be given to its ceramic development.

## Texas Meeting Marks Southern Resumption of Tariff Leadership.

[Special Correspondence Manufacturers Record.]

Dallas, March 16.

Return of the South to its original position as the foremost advocate of an American protective tariff was marked here at a meeting called by the Southern Tariff Association, which has arranged a series in several Southern cities for the next 60 days. Both the agricultural and manufacturing branches of Southern industry were highly represented, numerically and in the standing of the participants. In the chair was Ed Woodall, president of the Texas division of the Southern Tariff Association; the keynote was sounded by John H. Kirby, president of the parent organization, and the list of speakers included the names of other men of more than local note.

Released by the tariff plank of the Democratic platform from traditional and politically enforced allegiance to free trade or tariff for revenue only, Southern Democrats led the movement of the South back to tariff protection for American industry in all its phases. Protection for American industry, both agricultural and manufacturing, and particularly for Southern products, against successful competition in the United States by near-pauper foreign production was advocated with earnestness and determination, and the South hereafter will be found in a position of leadership for adequate American tariff protection. As the meeting expressed this sentiment in a declaration:

"We congratulate the producers of the South and of the Nation that, for the first time in history, both the major political parties are committed to the same tariff policy, thereby eliminating this subject as a partisan issue and permitting its application in accordance with sound economic principles.

"We recommend that Congress adopt a national tariff policy that treats every product of the soil, the factory, the mine and the sea alike. We are willing to apply the same tariff policy to the products we buy as we favor for the products we sell."

In the second sentence of the foregoing paragraph is emphasized the sound, fair and far-sighted attitude which the South now assumes in regard to tariff protection.

For farm relief and protection, the meeting urged (1) that Congress give to American producers tariff rates which will assure the American market for their products; (2) diversion of acreage from surplus crops and balancing of production with consumption; (3) to increase domestic consumption by increasing domestic buying power; (4) so to encourage American industry that continuous employment will be assured and the American standards of living and wages shall be maintained; (5) to exercise the right to impose duties on certain products from the Philippine Islands; (6) appointment of a committee for consultation on administrative features.

"If it is right to protect the manufacturing interests, it is right to protect the producing interests," said Nathan Adams, president of the American Exchange National Bank of Dallas, and, conversely, agricultural interests freely accorded the same right to manufacturing interests.

In a recital of tariff history, Mr. Kirby extolled what he termed the "return of the Democratic party to its ancient protectionist faith," and added:

"Every time we have lowered the tariff, we have brought on stagnation and distress. There is not a single instance in the history of this country when, in the midst of a period

of peace and prosperity and under normal conditions, we have lowered the tariff without bringing on hard times."

Tariff equality begins with the farm, according to Mr. Kirby. Emphasizing the farm problem as the most serious problem before the country, the speaker advocated that a high wall of protection be thrown about the home markets of the American farmer, and said:

"The tariff should not be made a football of politics, there is too much at stake. The South is going before a Congress that is sympathetic on both sides. We are going with the purpose of getting back a sane, sensible, stable policy with respect to the tariff. I am not one of those who thinks that log-rolling is the only way to put through legislation. If those who have the tariff in charge at Washington can be shown the true facts as they exist they can be depended upon to do the right and just thing. Representatives of Southern business and Southern agriculture—and agriculture is itself a business—expect results from the special Congress, but they must personally see to it that their problems are not overlooked. The right use of our taxing machinery will do more than anything else to enable the men of America to find work, and true prosperity ensues when employment is general.

"With the Democratic party coming back to the ancient doctrine of protection, with the Republican party remaining loyal to the Democratic baby it found years ago on its doorstep, and with the understanding of the people with respect to economic conditions growing, there are no limits to the destiny we may achieve."

Directing his remarks to representatives of the cottonseed crushing industry, Mr. Woodall said:

"I can't imagine any way that the cottonseed industry can be prosperous while the farmer is impoverished. The business men of Texas and of the South ought to concern themselves seriously with the farm crisis. If the farmer loses at the approaching Congress, in my opinion he loses for keeps. The farmer will be the primary beneficiary of any enhancement in the value of cottonseed oil, by reason of a protective tariff against foreign imported oils and materials."

Much of the discussion concerned tariff relief for the cotton grower and proposed imposition of duty on competitive oils from the Philippines. Mr. Woodall quoted from a letter he has sent to every member of Congress, in part as follows:

"I admit that taxing the Philippines involves an unpleasant undertaking—not that there is any Constitutional reason why we should not tax them, but as a matter of sentiment and what we might conceive to be our duty to our ward. On the other hand, it presents a very serious question that affects the prosperity of every Southern farmer and other fat producers of the United States, and I am wondering whether or not our obligation is greater to our ward than to our own children."

Admitting that it would be a great calamity for the Government to get into the business of agriculture, Mr. Adams said:

"The hope of this Nation is to obtain for agriculture the same consideration enjoyed by other forms of enterprise, and for agriculture then to apply itself to its job with the same energy and efficiency that goes into modern industry. There is no argument for protection of manufacturing unless the farmer is presented with the same advantages of protection. Whatever opposition this drive for equality will encounter will be from the selfish interests which want a tariff for themselves, but not for the other fellow. And what applies to Southern agriculture also applies to Southern manufacturing. The time has come for the South to awaken to the situation and to wage a campaign for a scale of duties on imports that will afford a fair return on its invested capital."

The Southern Tariff Association is being reinforced by farm organizations and business groups, including the



American Cotton Growers Exchange; various dairy bodies, and cottonseed crushers. Among those present were:

S. J. Vaughan, Hillsboro; W. F. Pendleton, Dallas; J. W. Simmons, Dallas; Miles Shorey and Wellington Brink, Manufacturers Record; John H. Kirby, Houston; Ed Woodall, Dallas; J. S. Todd, Fort Worth; A. Baker, Whitesboro; J. Lee Davis, Waco; Pat E. Hooks, Itasca; Will I. Hooks, Itasca; John D. Fortson, Corsicana; L. B. Davidson, Fort Worth; A. C. Barlow, Fort Worth; W. T. Conley, Terrell; Webb Howell, Bryan; J. M. Ford, Waco; H. E. Chiles, Itasca; Charles Sorg, Dallas; Allen Bailey, Dallas; W. A. Gilmore, Athens; Nathan Adams, Dallas; W. P. Allen, Terrell; C. C. Littleton, Gainesville; J. M. O'Daniel, San Angelo; J. L. Higginbotham, Dallas; W. B. Yeary, Dallas; R. L. George, Seymour; Clifford J. Carpenter, Farmersville; E. M. Crestman, Dallas; Alex Woldert, Jr., Tyler; O. P. Marshall, Commerce.

### \$2,000,000 John Marshall Hotel Under Construction.

Construction is progressing on the \$2,000,000 John Marshall Hotel at Richmond, Va., for the Richmond Hotels, Inc., general contract having been awarded some time ago to the Wise Granite & Construction Co., Inc., Richmond. Plans by Marcellus E. Wright call for a building of 16 stories and basement, 165 by 155 feet, of steel frame construction with brick, limestone and terra cotta exterior, built-up roof and gypsum partitions. Provision has been made for 7 shops on



16-STORY HOTEL NOW BUILDING AT RICHMOND.

the ground floor and 400 guest rooms above. There will be an auditorium to seat 1200. Three high-speed passenger elevators, service elevator, freight elevator and push button lift will be included in the equipment. Hankins & Collins, Richmond, have contract for excavation and the Richmond Structural Steel Co. for structural steel and ornamental iron. The Bloomington Limestone Co., Bloomington, Ind., has the limestone contract and John T. McCoy, Inc., New York, contract for the floor system.

### Charlotte to Vote on \$1,250,000 School Bonds.

Charlotte, N. C.—According to an order of the city commissioners, an election will be held here on April 2 on a bond issue of \$1,250,000 for schools. A special registration will be held under the terms of the resolution calling the election, the registration period to be completed by March 23.

### 100,000-HORSEPOWER STEAM-ELECTRIC POWER PLANT FOR ATLANTA.

#### Georgia Power Company Project to Cost Several Millions—Plant of Four Units to Occupy Site on Chattahoochee River.

Atlanta, Ga.—Plans are being made by the Georgia Power Co. for the construction of a 100,000-horsepower steam-electric power plant on the Chattahoochee River, near Atlanta, which will be the largest of its kind in Georgia and among the largest in the country, according to an announcement here. It will be the largest single development undertaken by the company since the completion of the Tallulah Falls unit in 1913, it is said, and will serve as an auxiliary plant capable of bearing the entire electric load of the Atlanta metropolitan district. The plant will be linked with the general hydro-electric system of the company in north and central Georgia, and with large power projects in Alabama and other southeastern states.

The plant will consist of four units, of 100,000-horsepower or 76,400-kilowatt capacity each, to occupy a site of 100 acres, and construction is expected to begin as soon as materials and machinery may be assembled. The first unit will be built in conformity with plans to permit the addition of the remaining three units as soon as their use is justified by commercial demands. Specifications for machinery and materials have been sent to various factories, it is announced, so that actual construction may begin within a few months. The new plant will be equipped with a single steam turbine generator and will have two large boilers to deliver steam against the blades of the turbine at a pressure of 450 pounds to the square inch. The boilers will be capable of delivering steam at this pressure and at a temperature of 725 degrees at a rate of 450,000 pounds per hour. An official estimate of the cost of the plant has not been disclosed, but it is certain the expenditure will be several millions of dollars.

While officials of the company have made no announcement as to the exact location of the plant, property below the Dahl florist nurseries on the west bank of the river a short distance south of Collins Bridge, on the Atlanta-Marietta road, was recently purchased by the company and it is thought this site will be used.

### April Meeting of Southern Forestry Congress to Consider Reforestation Plan for Delta Lands.

Formulation of a plan which will lead to determination, in a general way, where and how timber growing may prove profitable on the rich alluvial lands of the Mississippi Valley will be the first duty of the sub-committee on forestry of the Hardwood Manufacturers Institute of New Orleans, the plan to be submitted at the next annual meeting of the Southern Forestry Congress in New Orleans, April 4-5.

B. F. Smith of the Industrial Lumber Co., Elizabeth, La., and president of the Southern Forestry Congress, Inc., states that "the Southern region with its favorable climate and rapid growing trees will produce new and valuable forests in a remarkably short time," and he points out that "there are difficulties which have thus far prevented a large part of this area from producing anything since the virgin timber was removed."

The conference at New Orleans will take up the most important forest problems in the South, including fire, taxation, management of the farm woodland and selective logging in Southern hardwoods. It will set forth the need for growing timber and discuss the costs and opportunities for profit in the undertaking. It is suggested that the Congress will afford a well-rounded picture of the possibilities for timber growing in the South.



SEDFIELD INN, GREENSBORO.

## Construction Activity at Greensboro, N. C.

[Special Correspondence Manufacturers Record.]

Greensboro, N. C., March 16.

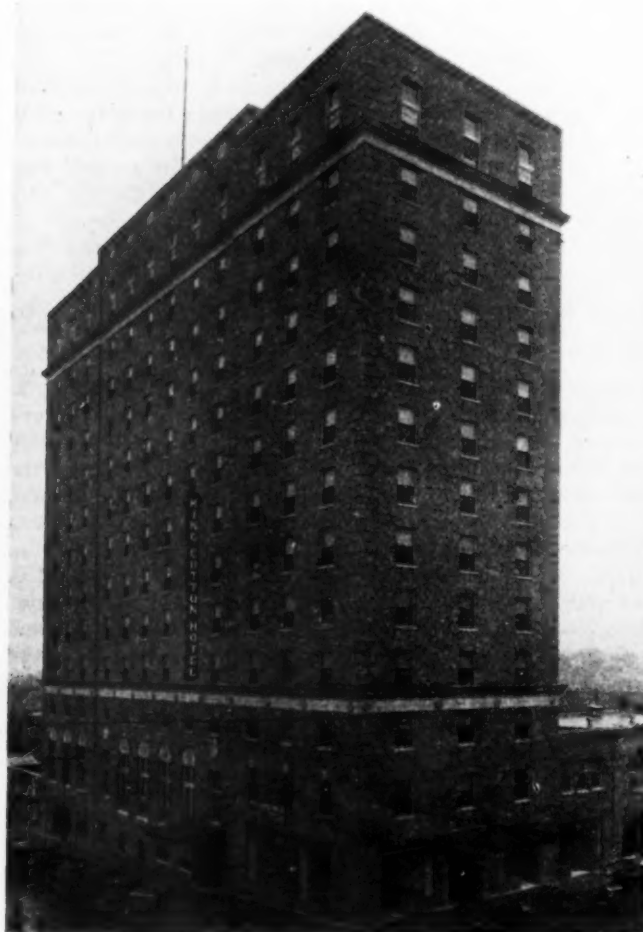
Building permits issued here last year represented a total valuation of \$5,048,000, or \$210,000 in excess of the 1927 valuation. The outlook this year is good.

Work is well advanced on a \$550,000 church and Sunday school building for the First Presbyterian Church, Walter Kidde & Co., New York and Greensboro, being the contractor and Harry Barton the architect. A \$300,000 addition to the American National Bank & Trust Company was recently finished. The Proximity Manufacturing Co. has expended recently several hundred thousand dollars for a new weave shed, power plant improvements, etc., and is now building 40 houses for operatives. Under the direction

of the Associated Architects, headed by C. C. Hartman, a \$2,000,000 school building program is being completed. Six under passes were built in 1928, work is under way on three more and two will be started this year, making a total of 13, to rid the city of railway grade crossings. Mock, Judson & Voehringer, Philadelphia interests which a short time ago established a full-fashioned hosiery mill here, last year completed a \$250,000 expansion program, and C. C. Hartman, architect, is completing plans now for another unit, 105 by 300 feet, two stories high. A boiler house also will be built.

Plans are nearing completion for a \$135,000 building for Park Place Methodist Episcopal Church, Harry Barton, architect. The same architect will release plans for bids on buildings for the Lutheran College, as soon as they are received from Theodore Steinmeyer, St. Louis architect, Mr. Barton being the associate architect.

C. C. Hartman, architect, reports the following projects: Atlantic Bank & Trust Co., Burlington, \$350,000 bank and office structure under way, J. R. Owens, general contractor; United Cigar Store, under way, cost \$160,000, Walter Kidde



KING COTTON HOTEL.



AMERICAN NATIONAL BANK &amp; TRUST CO.

At right is the \$300,000 addition recently completed.



Company, contractor; \$75,000 residence for Julian Price, Greensboro, George W. Kane, contractor; \$60,000 school at Franklinville, Burrows & Lamb, Asheboro, contractor. Plans may go out soon for bids on an office building for the First



PITCAIRN AVIATION HANGAR.

National Bank at Shelby, estimated to cost \$350,000; plans are being discussed for alterations and additions to the First & Citizens National Bank at Elizabeth City, N. C., esti-



ONE OF GREENSBORO'S MANY IMPRESSIVE STRUCTURES FOR EDUCATIONAL PURPOSES.

mated to cost \$100,000; a mill for the Diamond Full-Fashioned Hosiery Company is being completed at High Point by R. K. Stewart & Son, contractors.

A new Masonic Temple and the Forbis Street Garage for John A. Kellenberger were recently finished.

## Co-operation Between Producer and Consumer Spells Mutual Profit.

By H. C. PEARCE, Director of the Division of Purchases and Stores, Chesapeake and Ohio Railway Company, Richmond, Va.

The late Vice-President Marshall once declared the greatest need of the country to be a good five-cent cigar. Its greatest need today seems to be common sense. The country has apparently gone mad on the question of mass production. Henry Ford got into the automobile business at just the right time. By deciding "to put the country on wheels" at the right time he was able to capitalize the idea of mass production. But because he and some other manufacturers notably in the automotive industry have been successful, that is no reason for assuming that manufacturers in every line of activity can solve their problems by getting on a mass production basis.

There is little doubt that the success of many big firms operating on mass-production basis is due in no small measure to the ability to buy cheaply in large quantities. In many instances they buy the entire output of plants producing particular items, and therefore secure very low prices. To a large extent their success, therefore, is the result of buying capacity and ability rather than being due entirely to their operating on so big a scale.

We have gone too far with this idea of mere bigness. Bigness alone in output and bigness in sales methods will not suffice to solve present day business difficulties. There still is plenty of room for the manufacturer who will give attention to methods and quality of output in comparatively small plants, who can keep a close check on production costs and who will not have to pay out big sums of money in the way of overhead costs to highly paid officers, promoters and specialized sales forces. There is such a thing as getting too big.

We hear a great deal now about "hand-to-mouth buying"—that is a misnomer. What we really have is "hand-to-mouth receiving." By that one means there is closer co-operation between the consumer and the manufacturer. Some years ago it was the general practice of railroads to buy without previously arranging with the manufacturer. Thus, several firms coming into the market at one time for a particular item would tax the producing capacity of the maker for a time, and then would often follow a period when no one was in the market and the plants would be idle. Now, the roads endeavor to buy so as to stabilize production in the various

plants. They make arrangements for a certain quantity of goods of one or another kind and the manufacturer arranges to send them, say, 45 days after receipt of order.

Railroads in particular are buying on specifications. In eight years, purchases have been increased by this plan many fold, with good results. It does away with ruinous competition and makes it possible for the manufacturer to know exactly what is expected of him. It is of paramount importance that the buyer give the seller clear-cut specifications as to the quality, quantity and delivery required. Manufacturers must determine for themselves the cost of producing, the quality required, in the quantities desired, and add their profit. With these clear-cut fundamentals established, honesty will prevail, because it will give lasting results with the least expense. Reducing competition by curtailing inquiries is not sound. Every responsible manufacturer of a product which meets the buyer's requirements must be given equal opportunity to sell his product. Fair and open competition must be maintained.

Selling must give something tangible in return for the expense it involves. It has always seemed that the larger portion of the so-called selling expense could more profitably be directed toward the development of a better article at lower cost. The same is true of buying—it has been proven beyond question that the best buyer is the one who applies his knowledge and ability to the organization and direction of: (1) Determining the need; (2) that which is best suited for the purpose required; (3) scheduling and arranging so that it will be received about the time it is required for use; (4) obtaining the lowest price for that which is most suitable for the purpose, delivered when wanted. The talents and energies of the buyer will obtain the best results by thoroughness in preparation of his inquiries and specifications, and fairness and consideration which he gives to manufacturers.

There is ample and profitable work for both sellers and buyers; but their talents and energies must be directed through sources which will have for their purpose the elimination of all unprofitable effort. Both sellers and buyers can, by the application of sound business principles and common honesty, best serve themselves and those whom they represent.

## Farm Population Continues to Decrease.

The farm population of the United States is the smallest in 20 years, reports the Bureau of Agricultural Economics of the Department of Agriculture, which estimates a farm population of 27,511,000 persons on January 1, 1929, as compared with a peak of 32,000,000 persons in 1909. Despite improved agricultural conditions and a slight slackening in industrial employment, the January 1, 1929, estimated farm population showed a decrease compared with the 27,699,000 persons on January 1, 1928.

The movement away from farms slowed up somewhat during the year as compared with immediately preceding years, but the movement from cities, towns and villages to farms

was also smaller. Thus it is shown that 1,960,000 persons left farms during the past year, compared with 1,978,000 in 1927, and with 2,155,000 in 1926. The movement to farms was 1,362,000 persons last year, 1,374,000 in 1927, and 1,135,000 in 1926.

The large farm birthrate of 23 births per 1000 persons and small death rate of 8 deaths per 1000 persons has been a large factor offsetting the farm to city movement, so that the net loss of farm population last year was 188,000 persons, compared with 193,000 in 1927, and with 649,000 in 1926.

The bureau's figures show that in the New England States 65,000 persons left the farms last year and 60,000 went to

farms; Middle Atlantic States, 119,000 persons from farms and 93,000 persons to farms; East North Central, 299,000 from farms and 218,000 to farms; West North Central, 372,000 from farms and 232,000 to farms; South Atlantic, 266,000 from farms and 190,000 to farms; East South Central, 253,000 from farms and 167,000 to farms; West South Central, 327,000 from farms and 204,000 to farms; Mountain, 135,000 from farms and 95,000 to farms; Pacific, 124,000 from farms and 103,000 to farms.

CHANGES IN NUMBER OF PERSONS LIVING ON FARMS DURING 1928, BY GEOGRAPHIC DIVISIONS.

Division	Estimated farm population of Jan. 1, 1928	Arrivals		Departures		Farm population of Jan. 1, 1929
		Births	From cities, towns and villages	Deaths	To cities, towns and villages	
United States	27,699,000	643,000	1,562,000	234,000	1,960,000	27,511,000
Geographic Divisions:						
New England	634,000	10,000	60,000	7,000	65,000	633,000
Middle Atlantic	1,754,000	30,000	93,000	18,000	119,000	1,740,000
East North Central	4,274,000	73,000	218,000	38,000	299,000	4,227,000
West North Central	4,644,000	88,000	232,000	33,000	372,000	4,560,000
South Atlantic	5,431,000	152,000	190,000	38,000	266,000	5,469,000
East South Central	4,518,000	140,000	167,000	45,000	253,000	4,527,000
West South Central	4,535,000	113,000	204,000	41,000	327,000	4,485,000
Mountain	923,000	22,000	95,000	7,000	135,000	898,000
Pacific	986,000	15,000	103,000	7,000	124,000	972,000

### Great Group of Southern Chemical Industries Is Formed.

Birmingham, Ala., March 16—[Special.]—What is believed to be the largest group of chemical industries under unified control in the South has been incorporated here in the Swann Corporation, there being 11 subsidiary enterprises. Announcement is made also that the latest subsidiary, known as the Jax Plant Food Company, would market on a national scale a new and highly concentrated plant food for gardens, lawns and flowers. This company is the first of the large Swann group to engage in distribution of the package products of the Anniston plant direct to the consumers.

The postwar development of the 11 affiliated corporations, which manufacture more than 30 different products entering directly or indirectly in the commonplace daily life of almost every person in the United States, is a chapter in the history of American enterprise. In 1917, Theodore Swann noted the requirement for ferro-manganese for war purposes and organized the Southern Manganese Corporation. At the end of the war, when the demand for ferro-manganese shrank to relatively small proportions, Swann and his associates developed a new process for smelting phosphate rock by electrical energy in electrical furnaces. Various phosphoric acid products were thus produced and new companies were organized, one after the other, to manufacture and market them; and other electric furnace products in commercial quantities. The subsidiary enterprises include the Federal Phosphorus Company, the Southern Manganese Corporation, the Federal Carbide Company, the Federal Abrasives Company, the Provident Chemical Works of St. Louis, the Jax Plant Food Company and the Federal Power Company, controlling the Hiwassee Power Company and the Nolichucky Power Company. The largest industry is the Federal Phosphorus Company, which is said to manufacture more food grade phosphoric acid than any other company in the world. An important development the past year was the production of diphenyl on a commercial scale at Anniston.

Ferro phosphorus, used in re-phosphorizing steel and largely employed in the production of sheet steel, is manufactured by the Southern Manganese Corporation. The Federal Car-

bide Company manufactures calcium carbide, out of which is made acetylene for steel cutting, welding, and lighting and similar uses. The Federal Abrasives Company manufactures abrasives for grinding wheels and polishing. The power companies included in the Swann group own undeveloped power sites, which may be improved in the future to develop power for the various enterprises. The companies in existence use more than one-tenth of all the power consumed in Alabama.

### Birmingham Gas Properties to New York Company.

Birmingham, Ala.—A contract has been made by the American Commonwealths Co., New York, for the purchase from the Birmingham Electric Co. of all its gas properties in and about the cities of Birmingham, Bessemer and Fairfield, Ala., and the towns of Tarrant City, Brighton and Hollywood, Ala., as well as in other sections of Jefferson County. In addition to the properties, the transfer will also include the entire personnel of the gas department of the Birmingham company. Southern properties owned and operated by the American Commonwealths Corporation are located in Texas, Louisiana, Florida, Georgia, Arkansas, Oklahoma and Missouri, and serve a number of important Southern cities, including Amarillo, Tex.; Jacksonville and St. Augustine, Fla., and Savannah, Ga.

### Contract Awarded for \$800,000 Tulsa Building.

Tulsa, Okla.—General contract has been awarded by Waite Phillips to Charles M. Dunning, Tulsa and Oklahoma City, for erecting a store and office building to cost about \$800,000. The structure will be five stories, basement and sub-basement, 150 by 140 feet, with Minnesota granite base, buff brick facing and terra cotta trim. Foundations will be sufficiently heavy to carry 12 stories, the additional floors to be erected when conditions warrant. Space will be provided on the first two floors for 28 shops. One freight and six passenger elevators will be installed. Smith & Senter, Tulsa, are the architects.



## \$700,000 Waterworks System for Monroe, Louisiana.

FACILITIES TO INCLUDE FILTRATION PLANT OF 6,000,000-GALLONS DAILY CAPACITY, CENTRIFUGAL PUMPS OF COMBINED DAILY CAPACITY OF 28,500,000 GALLONS AND STORAGE TANK OF 500,000 GALLONS.

By M. P. HATCHER, Office Engineer, Burns & McDonnell Engineering Co., Kansas City, Mo.

The major portion of a waterworks improvement program, involving an ultimate expenditure of \$700,000, was recently completed by the city of Monroe, La., improvements consisting of a \$270,000 filtration and pumping plant and betterments to the distribution system costing \$205,000. Improvements yet to be completed include a dam, low service pumping station and meters. The main source of water supply is the Ouachita River, which flows along the western limits of the city, furnishing an adequate supply of water generally low in turbidity, comparatively high in color and carrying at times of low flow a salt content as high as 2500 parts per million due to pollution from the oil fields of Arkansas.

This periodic high salt content necessitated improvement of the supply by the construction of a storage reservoir for collection and storage when the water of the river is diluted by flood stages. The reservoir will be formed by an earthen dam to be built across Bayou DeSiard which connects with the Ouachita river 2 miles above the reservoir, and will hold about 600,000,000 gallons. An electrically operated pumping station will be constructed at the dam site to deliver water from the river or from the reservoir to the filtration plant. Work on the dam and pumping station is expected to be started soon. Meanwhile raw water will be furnished the plant by existing pumping stations on the Ouachita River.

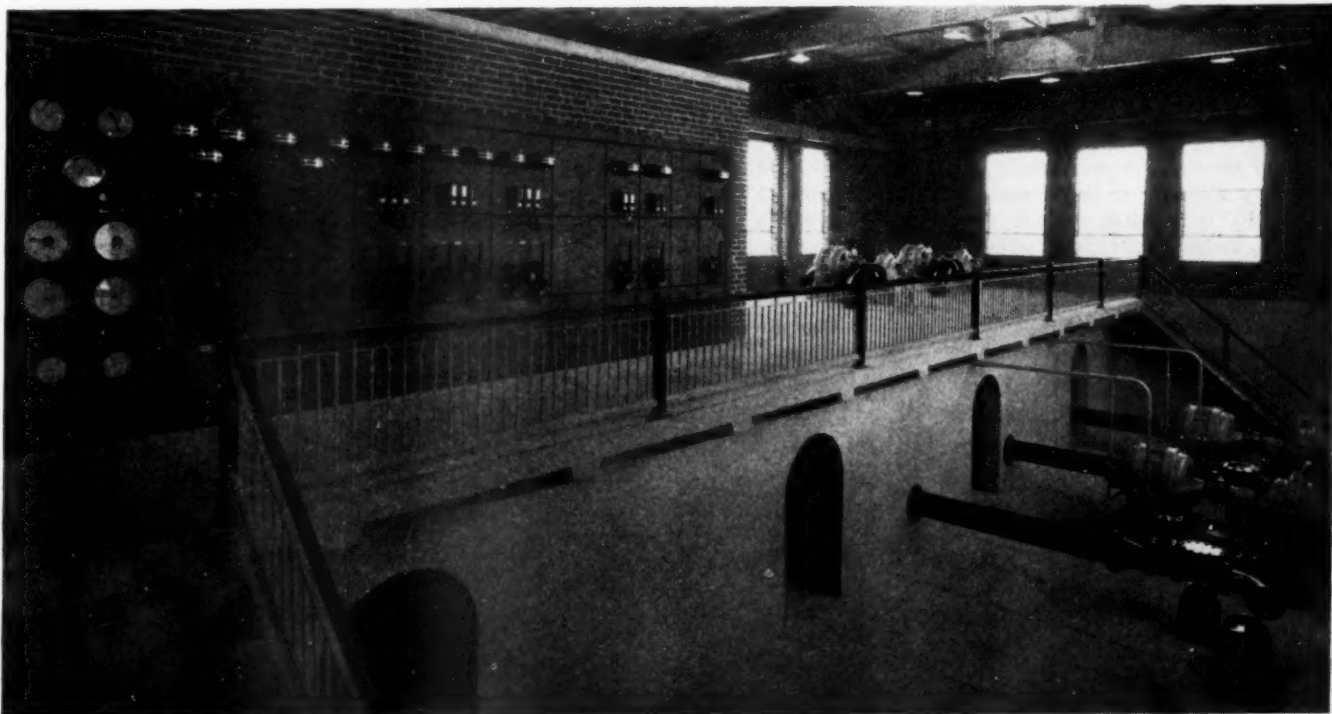
The filtration and pumping plants have

been carefully designed, especially with reference to economy in operation and maintenance. Buildings are fireproof and so arranged to allow extensions and increase in plant capacity at minimum cost and with minimum disturbance to existing facilities. Settling basins, mixing tanks and filters may be extended in units, while the pump room is so arranged that the capacity may be increased without change in the station structure.

The general plan of treatment in the new filtration plant includes aeration, preliminary plain sedimentation, mechanical agitation of applied chemicals, secondary plain sedimentation, filtration and sterilization in the order named. Water is delivered by the low service pumps to nozzle type aerators above the existing basin and falls directly to the preliminary settling basin where it is retained about three hours. Aerators remove dissolved gases and organic tastes and odors, the water then being carried to mixing tanks where lime and alum are applied. Chemicals form a feathery *floc* which aids in collecting sediment and carrying it to the bottom of the secondary settling basins. Water passes from the basins to filters where the remainder of the sediment is removed. There are four concrete filter units holding 30 inches of sand, over 18 inches of graded gravel. Each unit has a capacity of 1,500,000 gallons in 24 hours and when sediment has accumulated on the surface of the sand



TANK AT WATER PLANT.



MAIN PUMP AND SWITCHBOARD ROOM OF THE NEW PLANT.

the filter is washed by reversing the flow of water. After passing the filters the water is sterilized with liquid chlorine and passed to a storage reservoir. It is then ready for pumpage to the distribution system as desired.

Pumping equipment consists of a 4,500,000-gallon and two 6,000,000-gallon centrifugal units, each operated by a synchronous motor. In case of fire two 6,000,000-gallon pumps are provided to boost the station pressure in order to overcome additional friction losses in the feeder lines. A 500,000-gallon storage tank, supported on a 115-foot tower, has a water depth of 35 feet. Functioning as an equalizing reservoir, the tank is said to have effected a decided improvement in pumping conditions. Various contracts in the construction program are as follows:

**Buildings and structures**—B. E. Buffalo & Co., Memphis, Tenn., \$221,778.

**Cast iron pipe and fittings**—United States Cast Iron Pipe and Foundry Co., Birmingham, Ala., \$123,951.

**Distribution system**—W. H. O'Toole Construction Co., Monroe, La., \$42,551.

**Elevated tanks**—J. S. Schofield's Sons Co., Macon, Ga., \$27,800.

**Filter equipment**—Roberts Filter Manufacturing Co., Darby, Pa., \$29,390.

**Hydrants and valves**—R. D. Wood & Co., Philadelphia, \$10,901.

**Pumping and electrical equipment**—Walter Castaneda, Inc., New Orleans, \$17,781.

The plant is being constructed under the direction of the City Commissioners, Mayor Arnold Bernstein, B. A. Breard, commissioner of utilities, and Will Atkinson, commissioner of streets and parks. J. K. Brothers is general superintendent of utilities. Survey, plans and specifications were made by the Burns & McDonnell Engineering Co. of Kansas City, Mo., which supervised construction.

### Iodine in South Carolina Foods.

Conclusions of the South Carolina Food Research Commission, which has been studying the mineral constituents of various fruits and vegetables, particularly in regard to the iodine content, are described in advance as providing "a most valuable contribution to the study of iodine and its relation to goiter." After study of the analyses, Dr. McClendon of the University of Minnesota is quoted as saying that the use of the vegetables and fruits grown in South Carolina, as a part of the daily ration of those in goiterous sections of the country, would go far toward alleviating the trouble, as these products contain many times as much iodine as similar agricultural products in other sections.

### Contract for \$750,000 Baltimore Parcel Post Station.

General contract for erecting a \$750,000 parcel post service station near the Pennsylvania Railroad station, Baltimore, has been awarded to the Consolidated Engineering Co., Baltimore, by the Postal Service Corporation, of which R. D. Brown, Indianapolis, Ind., is president. The building, to be erected for lease to the government, will be constructed between St. Paul and Calvert streets over the railroad bed and will be supported by 35-foot piers. It will be two stories, 144 by 270 feet, of reinforced concrete with wood block floors. Bishop, Knowlton & Carson, Indianapolis, are the architects.

### \$830,000 Low Bid on San Antonio Building.

San Antonio, Tex.—A low bid of \$830,000 has been submitted to J. M. Nix by J. P. Haynes, for erecting an 18-story office building and garage here, with \$40,112 to be added for two additional stories. The Graham & Collins Electric Co. submitted the lowest bid at \$43,150 for electric work; Kirkwood & Wharton, at \$37,400, for heating; Martin Wright, at \$88,000, for elevators, all contractors of San Antonio. The building will be 168x114 feet, of brick, stone and steel, to cost about \$1,500,000 complete. Eight floors will be used for a garage. Henry T. Phelps is the architect and the Beretta-Stiles Co., Inc., are consulting engineers, both of San Antonio.

### Charleston Completes \$350,000 Water Supply Tunnel Built Through Marl—Additional Tunnel of 18 Miles Proposed to Perfect City Water System.

An interesting tunnel job in connection with the enlargement of the water supply at Charleston, S. C., was recently finished at a cost of \$350,000. To insure an adequate supply in dry periods, it was decided to divert, via a tunnel 4.5 miles long, water from the Edisto River to the Ashley River; here it is picked up and pumped to the Goose Creek Reservoir, serving Charleston. It is planned ultimately to carry water by tunnel to the filter plant, and this will necessitate building about 18 additional miles of tunnel.

The new tunnel is some 50 feet below the surface, is built entirely in marl without any lining and shows no indication of any erosion. Five shafts were sunk, one inlet, one outlet and three intermediate shafts, averaging about 14 feet each in diameter. Work proceeded night and day from eight points. Compressed air was supplied from two central stations, Fairbanks, Morse & Co. engines being used to drive Sullivan angle type compressors.

Briefly, the method of construction may be described thus: The tunnel was a 7-foot horseshoe cross section. Five holes were drilled six feet deep, none nearer than 18 inches to the circumference of the cross section. Each hole was loaded with one stick of 40 per cent gelatin dynamite; after the shot was fired pneumatic spades were used to break up the loosened material and to smooth up the facing. Material was loaded into  $\frac{3}{4}$ -yard cars, pushed by hand to the shafts, hoisted and deposited on waste banks. The cars utilized were manufactured by the Emco Manufacturing Co., Detroit. Gardner-Denver air spades and drills were used. Lidgerwood hoists—operated by air, because there was available a supply in excess of that needed for digging and drilling—were employed to lift the loaded cars to the surface. No artificial ventilation was necessary; it is stated that the exhaust from the air tools helped considerably in properly ventilating the tunnel, which was illuminated by General Electric direct current generators.

No serious accidents occurred during construction of the project, work on which began January 22, 1928, and was completed January 20, 1929. No water was encountered during construction operations other than that due to condensation and seepage.

James E. Gibson was general manager and chief engineer for the Charleston Water Works Commission. The MacDougald Construction Company and Chas. E. Case, both of Atlanta, Ga., were the contractors.

### Wheat Exports from Baltimore.

A recent check of exports from the port of Baltimore showed that the largest single cargo of wheat was carried in the steamship "Emmanuele Accame" bound for Antwerp. Of the bulk of the 448,582 bushel cargo, 361,646 bushels was put into the vessel at the Baltimore and Ohio Railroad pier at Locust Point, 60,050 bushels at the Pennsylvania Railroad pier, Canton, and 26,886 bushels at the Western Maryland Railway, Port Covington.

### Industrial Directory of St. Louis.

An exhaustive directory, listing manufacturing concerns in the St. Louis industrial district which do a gross business of more than \$5000 annually, has been compiled and published by the Industrial Club of St. Louis. The book lists 3074 concerns in the district, which embraces St. Louis, St. Louis County, St. Charles, Mo., and east side communities of Illinois. Of these 2682 are in St. Louis.



## World's Greatest Speedway.



When Major H. O. D. Segrave made his marvelous speed record on Daytona Beach of over 231 miles an hour, 40,000 people, according to the local estimate, lined the sand dunes along the beach for over eight miles, the length of the running space at such excessive speed. An indication of how the people were packed is shown in the above view of some of the spectators. Stretch this space out for nearly nine miles and one gets an idea of the tremendous interest aroused in this world record-breaking speed. The beach was in fairly good condition, smooth and hard. So great was the number of automobiles parked in every conceivable spot along the entire distance that when the race was over it took about an hour and a half to relieve the congestion sufficiently to permit any car to move forward.

Major Segrave was born in Baltimore while his father was British consul at that city. His mother was a Baltimorean, and the family continued to live in Baltimore until Segrave was four years old. In this respect the South can claim at least half the credit for Segrave's birth and stamina, in addition to claiming the only beach in the world on which such a tremendous speed could be secured.

### \$1,500,000 Pottery Plant for West Virginia.

Newell, W. Va.—Plans are said to be nearing completion for the erection of a new \$1,500,000 pottery here by the Homer Laughlin China Co., of East Liverpool, Ohio. A tract of 11 acres has been acquired for the location of the plant and it is expected construction will be started in the summer. When completed, this will be the fifth pottery of the company at Newell, in addition to three it operates at East Liverpool.

### \$500,000 Voted to Complete Fleetwood Hotel.

Hendersonville, N. C.—A bond issue of \$500,000 to guarantee the completion of the Fleetwood Hotel, near here, has been voted by the city of Hendersonville and it is understood that construction will soon be started by the Russell B. Smith Engineers, Inc., of New York. The structure is 15 stories and basement, of structural steel and reinforced concrete, with brick and tile walls and stone trim. It is owned by the Laurel Park Realty Co., of this city.

### Government Establishes New Tobacco Section.

Establishment of a tobacco section in the Bureau of Agricultural Economics, Department of Agriculture, for the issuance of quarterly tobacco stocks reports as provided by the Tobacco Stocks and Standards Act passed at the last session of Congress for the establishment and promotion of standard grades for tobacco, and for the development of a tobacco grading and certification service, has been announced by Nils A. Olsen, chief of the bureau. The new section will be in the charge of Charles E. Gage and the first quarterly stocks report is to be issued as of April 1.

The Agricultural Appropriation Bill for the next fiscal year also makes available \$20,000 for inspection work on tobacco similar to that now conducted on fruits and vegetables, hay, butter, eggs, meat and other commodities. Plans for the development of the tobacco inspection service have not yet been made but it is likely this work will be developed so far as practicable in co-operation with state agencies.

# Industrial Development As a Factor in Creating Agricultural Prosperity.

Since the publication last week of letters from many leaders in Southern development in regard to the view that industrial development is a prime essential in bringing the largest prosperity to agriculture through diversification, we have a number of additional letters discussing this question from various angles.

## Alabama and Birmingham Awake to the Situation.

O. L. Bunn, secretary-manager of the Chamber of Commerce of Birmingham, one of the strongest commercial organizations in one of the liveliest cities of the South, thinks we have sounded "the battle cry for this section," and says:

"In my opinion, you have sounded the battle cry that should be brought to the attention of every business south of the Ohio River. All we need is concerted action and plenty of co-operation. The South has awakened to its possibilities and if we will work as a unit the results will be beyond our expectations. In so far as the Birmingham Chamber of Commerce is concerned, we are fully awake to the situation and are doing everything in our power to stimulate activities and feel that we have been fairly successful in so far as Alabama and the Birmingham district are concerned."

## Florida Keenly Interested.

Florida is beginning to take an active interest in industrial development, and R. G. Grassfield, general manager of the Florida State Chamber of Commerce in commending the idea expressed in our letter of February 9 thinks the analysis of the situation an important one. He writes:

"Your analysis of the economic situation in the South is most valuable. It is an inspiration to all who received the message.

"Industrial development is a subject to which I have given a great deal of thought, particularly as it pertains to Florida. The business men of the state have come to think concretely in terms of manufacturing as a factor in stabilizing our growth. Fostering our industrial expansion is one of the major interests of the state chamber, although our work during the past year has not been in evidence. Our program of agricultural expansion and those activities pertaining to this time of change is all calculated to do the thing you have so ably suggested."

## To Develop the Diversification Idea.

President J. M. Miller, Jr., of the First and Merchants National Bank of Richmond, one of the outstanding banks of the South, writes:

"I am in hearty accord with the ideas expressed therein, and it is probable we will use the idea in some of our cities in the Virginias and Carolinas."

## Jacksonville Active Now and Looks Ahead to Great Expansion.

For the Chamber of Commerce, Jacksonville, Elliott W. Butts, manager, emphasizes the fact that the city is already vigorously at work seeking further industrial development and that great progress is being made. Jacksonville and its people, he says, are in hearty accord with the views expressed in the MANUFACTURERS RECORD on the need of larger industrial development. Mr. Butts writes:

"The city of Jacksonville and its Chamber of Commerce are in full accord with your views along these lines, and from a local standpoint we have increased our appropriation to meet the enlarged scope on which we propose to concentrate our local industrial development. Jacksonville had what might reasonably be termed a highly successful year from an industrial standpoint during 1928. A significant fact in connection with new industries located is that the plant investment alone exceeded by \$129,215 the total plant investment of manufactures in all of Duval County in 1905. Of the 31 new plants, eight, representing 84 per cent of total plant invest-

ment and 42 per cent of total employees required, were branch plants of firms located in other cities. This capital, therefore, came from the outside.

"It is only natural, therefore, that your letter should be opportune and inspiring. After all, it does not matter so much where we are standing as where we are facing. By the same token, we appreciate there could be no agricultural prosperity without manufacturing prosperity, and vice versa. In addition to manufactures for domestic purposes, there is rapidly developing in Latin-America a decided trend toward the adoption of American standards and with it greatly increased imports. The United States can expect to meet stronger competition for this Latin-American trade. It may be able to pay sufficiently high prices for Latin-American products, but it is an open question whether it can hold its selling prices down low enough to fully meet European competition. It is, therefore, only reasonable to look for the continued trend of industry to the South, and particularly to its ports for expansion of its exports. We feel that Jacksonville offers an almost perfect combination of circumstances with which to invite this industry, and with this in mind, you can appreciate it is certainly not our purpose to beat a retreat."

## Not Enough Local Consumers.

President J. F. Hall of the Bank of New Albany, Miss., calls attention to the fact that in that section they have 87 per cent producers of foodstuffs and only 13 per cent consumers, a position which militates against the largest farming possibilities. He writes:

"You have outlined the situation exactly as I see it. In this section of the country we have 87 per cent producers and 13 per cent consumers, which makes farming unprofitable. I have long said that agricultural sections have to be balanced with industrial plants enough to create a market in the smaller towns and cities to consume perishable farm products.

"Our lands in this section are fitted for the production of anything that can be raised in any section, but we need more industrial plants which employ a lot of labor that will consume what the farmers produce."

## An Economic Survey of East Texas.

For the East Texas Chamber of Commerce, W. N. Blanton, manager, writes from Longview:

"Your suggestions have been anticipated by the directors of the East Texas Chamber of Commerce, who some months ago resolved to have made by competent persons a thorough economic survey of East Texas, to the end that we may direct our efforts intelligently to the development of industries. We have just entered into an agreement with the Bureau of Business Research of the University of Texas, and the survey has begun already.

"We agree with your view that industrial development will increase the demand for agricultural products and to that extent will be an important factor, though by no means the only factor, in the solution of the problem of agricultural distress. But we wish to be sure of our facts as to essential conditions, resources, markets, etc., before we undertake to stimulate industrial expansion beyond the normal acceleration of individual enterprise."

## Should Be Self-Supporting Industrially.

C. S. Williams of Williams, Incorporated, New Orleans, writes:

"I acknowledge with thanks your letter exhorting us as Southerners to devote ourselves to the building up of industrial interests in the South. While I consider agriculture the backbone of the South and its success essential to the success of the South at least for a generation or more, it is most essential that we be self-supporting industrially as well as agriculturally.

"New Orleans has already taken steps to carry out just what you have suggested. The leaders here have realized for some time that New Orleans has great opportunities and it could only be a question of time until such opportunities would be recognized, but through an advertising campaign



we are endeavoring to hasten the consummation of our hopes and plans."

### Home Market Needed for Farm Products.

O. B. Taylor, Vice-President, the Merchants Bank & Trust Co., Jackson, Miss., says:

"Your great magazine is the most powerful agent we have in promoting the development of the South. You are certainly on the right line in asking everyone to do all things possible to secure an industrial development here. We need a home market for the products of our farms. We need to furnish opportunity for employment for our surplus labor. We need to offer advantages to our young men and young women such as will keep them in the South. In my humble way, I shall work as hard as I can along the lines so well expressed in your editorial."

### Looks for Great Development of Entire South.

Thomas W. Martin, President of the Alabama Power Company, Birmingham, Ala., writes:

"I have read with much interest your letter and copy of the editorial. Your suggestions are very timely and you have presented the thought in the most striking manner.

"There is, from our observation, a very marked feeling of optimism throughout the South, and this spirit is being encouraged by such comments as you are making, and will certainly be followed by practical results to the advantage of the South as a whole. We may look in the next few years for greater results in the development of the entire South than have heretofore occurred; provided the spirit and feeling of the people of the South toward industry and investment of capital continues to be fair and reasonable, and this I believe will be the case."

### Savannah Now at Work.

George M. Rommel, industrial commissioner of the Industrial Committee of Savannah, is in hearty accord with the position stressed by the MANUFACTURERS RECORD, and writes:

"The members of the Industrial Committee of Savannah, and its officers, believe that we are working under a plan which will develop the sort of advance that you have in mind."

### Marching Forward.

Langbourne M. Williams of John L. Williams & Sons, Richmond bankers, who for more than half a century have been identified with Southern development; writes:

"I believe in the statement expressed about marching forward. You are certainly doing your part in the upbuilding of the South."

### Louisiana Has a Comprehensive Program.

Herbert Bayliss, general manager of the Louisiana Chamber of Commerce, writes from Baton Rouge:

"In the opinion of the Louisiana Chamber of Commerce, your contentions are both sound and timely. I am in a position to make this statement, because of the fact that our 1929 program of activities includes an industrial development program, supported by a comprehensive agricultural and co-operative program of activities.

"The business men charged with the administration of the Louisiana Chamber of Commerce appreciate that industry and agriculture must go hand in hand, and have directed their thought and effort to the end that Louisiana's tremendous industrial and agricultural opportunities can best be developed, through such a co-operative program.

"Considering the economics of the situation, you have stated the case most liberally—'agriculture to a large extent is suffering in every section where industrial development is not on a sufficiently large scale to create a home market not alone for the food products of adjacent farms, but for the young men and young women that are growing up on the farms'—with which thought we are in hearty accord."

### Chesapeake & Ohio "Exerting Every Effort."

A letter from W. J. Harahan, president, the Chesapeake and Ohio Railway Company, Richmond, Va., says:

"I have read with much interest your editorial in regard to the economic development of the South. I think that you

have stated the situation very clearly. We are exerting every effort along the lines which you mention, and I am very glad to say that we have met with considerable success in locating new industries along our line."

### Southern Pacific Active in the Work.

From H. M. Lull, executive vice-president of the Southern Pacific Lines in Texas and Louisiana, Houston, comes the following:

"I have read with interest your cover-page editorial. More active effort in fostering industrial development in every way possible is of prime importance now, particularly in our Southern border states. The Southern Pacific Lines are doing everything possible to stimulate interest in this work and our activities will be continued.

"According to my views, your editorial sounds an awakening note along a line which I hope all of our more important magazines and newspapers will continue to agitate."

### Public Utility Light and Power Plants in South Carolina As of Census of 1927.

The total output of electric current in South Carolina in 1927, as reported by central electric light and power plants to the Department of Commerce, was 1,116,266,957 kilowatt hours, an increase of 32.2 per cent as compared with 844,416,989 kilowatt hours generated in 1922. During the same period the generator capacity increased from 292,880 kilowatts to 490,148 kilowatts, or 67.4 per cent. A marked increase is shown also for the horsepower of steam turbines in use as prime movers.

These figures cover both commercial and municipal plants, but do not cover those operated by mines, factories, hotels, and other enterprises not in the nature of public utilities, which consume all the current generated, nor plants operated by the Federal Government or by state institutions. No data are included for electric-railway power plants unless a part of the current generated is sold.

The 58 electric light and power establishments reported from South Carolina for 1927 comprised 23 commercial and 35 municipal establishments. The word "establishment" refers to ownership or control; consequently in many cases a commercial establishment represents two or more generating stations or distribution systems. The decrease in the number of commercial establishments during the five-year period, 1922-1927, is due to the centralization of ownership or control and absorption of independent generating stations accompanying the extension of transmission lines. The decrease in the number of municipal plants is due to abandonment of municipal generating stations and acquisition of municipal distribution lines by commercial systems.

	1927	1922	Per cent of increase or decrease (-)
Number of establishments, total	58	87	(*)
Commercial	23	40	(*)
Municipal	35	47	(*)
Number of generating stations	52	78	(*)
Prime movers:			
Total number	164	202	-18.8
Total horsepower	698,333	448,782	55.6
Steam Engines:			
Number	31	60	(*)
Horsepower	13,154	10,370	26.8
Steam turbines:			
Number	21	17	(*)
Horsepower	147,863	38,435	284.7
Internal-combustion engines:			
Number	7	17	(*)
Horsepower	978	1,165	-16.1
Hydro-turbines:			
Number	105	108	-2.8
Horsepower	536,338	398,812	34.5
Generators:			
Number	161	201	-19.9
Kilowatt capacity	490,148	292,880	67.4
Output of stations, kilowatt hours	1,116,266,957	844,416,989	32.2
Number of customers	89,662	61,685	45.4

(\*) Per cent not computed where base is less than 100.

## Big Tire Plant for Atlanta.

**GOODRICH TO PRODUCE 5000 TIRES AND TUBES DAILY—SOUTH'S ADVANTAGES CITED—TREND TOWARD ESTABLISHMENT OF ALLIED INDUSTRIES.**

President James D. Tew of the B. F. Goodrich Rubber Co., Akron, Ohio, announces plans for the construction of a tire manufacturing plant at Atlanta, Ga., to be completed by the end of this year, making the third Goodrich tire plant in the United States. This announcement follows the recent purchase of 25 acres of land at 14th and Hemphill streets, where construction will be started soon to provide facilities for a daily production of 5000 tires and as many tubes. Plant buildings will be of reinforced concrete and structural steel, with brick walls, tar and gravel roof, concrete and wood floors, and will be equipped with a sprinkler system. Plans are being made by the Engineering Department of the company, while Robert & Co., Inc., of Atlanta, will serve as supervising engineers.

Atlanta was selected for the site of a Southern Goodrich tire plant, according to Mr. Tew, following a period of investigation of Southern manufacturing and distributing advantages. Because of the rapid industrial growth of the South, he states that a plant in that section of the United States is justified, citing the fact that the Goodrich tire plant at Los Angeles, Cal., built only a little more than a year ago, has been compelled to expand for greater production.

There is another potent reason for the location of the plant in the South, to which attention may be directed, and it is the call of the South for the location in that section of textile and allied industries. That industrialists in all parts of the country are heeding the call is attested by the fact that the Goodyear Tire & Rubber Co., also of Akron, is building a \$7,500,000 tire manufacturing unit at Gadsden. The Goodrich plant at Atlanta will be supplied with tire fabric from the Goodrich Martha Mills at Thomaston, Ga., a 30,000-spindle enterprise which is now being expanded for the accommodation of 50,000 additional spindles. Likewise the Goodyear tire plant at Gadsden will be supplied by the Goodyear tire fabric mill at Cedartown, where the company has inaugurated an expansion program for the installation of 18,000 additional spindles, to bring the total spindleage to more than 50,000.

In addition to the Goodrich and Goodyear enterprises in the South, the Standard Looms, Inc., have completed a big plant at Spartanburg, S. C., for the complete manufacture of new cotton looms and loom replacement parts. This is regarded as a most significant development in the industrial advancement of the Southeast and probably the longest step forward in the establishment of allied industries.

### Contract for 900-Mile Natural Gas Line.

Birmingham, Ala.—Contract for laying a natural gas line from the Louisiana field to Birmingham and other cities, has been awarded by the Southern Natural Gas Co., with an office here, to the Natural Gas Engineering Corp., an affiliated organization. The entire line will cover a distance of approximately 900 miles, it is said, but no official estimate of the cost of the project is available. Larger cities to which service will probably be extended, in addition to Birmingham, include Montgomery and Selma, Ala.; Macon and Atlanta, Ga., and Chattanooga and Memphis, Tenn. R. C. Sharp, Tulsa, Okla., is president of the company.

### Permanent Home for National Dairy Show.

Following a movement originating in the St. Louis Chamber of Commerce to bring the National Dairy Show to a permanent home in that city, a special committee was appointed, consisting of F. W. A. Vesper, chairman; Harold M. Bixby, E. A. Faust, L. W. Baldwin, president of the Missouri-Pacific Lines, and others, to foster the project. The National Exhibition Company of St. Louis was organized with Ben G. Brinkman, president, to provide a site and build adequate facilities for the show. The site comprises 75 acres, including Forest Park Highlands, and three structures are being erected initially, the Boaz-Kiel Construction Co., of St. Louis, handling general contract.

Plans for the structures, prepared by George H. Holcombe, fair and exposition architect of St. Louis, provide for an arena, 276 by 476 feet, with a show ring in the center, 100 by 200 feet and 134 feet to the crown of the roof. The building is without columns and will seat 12,580 people normally and 19,500 by placing chairs in the show ring. On either side of the arena are buildings 300 by 300 feet, 30 feet high, equipped with portable fixtures which may be quickly removed, thereby adapting the structure to different classes of shows. This

equipment consists of stalls, pens, booths and amusement park devices.

While only three buildings are contemplated at present, a regulation half-mile track with a steel and concrete grandstand, and six other exhibit buildings are to be constructed, in addition a central heating plant and race horse barns. The track will be for harness racing and does not contemplate anything of a sport or betting character. For construction as at present outlined, the general contractor has awarded the following sub-contracts:

Balcony seats—American Car and Foundry Co., St. Louis.  
Lamella roofs—Missouri Lamella Roof Co., St. Louis.  
Millwork—Huttig Sash and Door Co., St. Louis.  
Mottled terra cotta, caen tile, etc., for exterior walls and interior partitions—Clay Products Co., Brazil, Ind.  
Steel sash—Crescent Steel Co., St. Louis.  
Structural steel, miscellaneous and ornamental iron—Stupp Bros. Bridge and Iron Co., St. Louis.

### \$3,000,000 Seawall for Port Arthur.

Port Arthur, Tex.—By enactment of the Legislature, the construction of a seawall here at a cost of \$3,000,000 is assured. An enabling bill provides for the remission of state taxes for a period of 20 years in which it is estimated a total of \$2,200,000 may be raised. The state fund will be augmented by \$2,000,000 to be raised by Jefferson County, but as the cost of the seawall is restricted to \$3,000,000 the remaining money will be used as a sinking fund.

### Seaboard Air Line Opens Savannah Station.

The Seaboard Air Line Railway Co. announces the opening of a new city freight station at Savannah, Ga., of modern design and equipment, including excellent team track facilities, located on the Louisville Road, near West Boundary street. E. C. Bagwell, Savannah, is general manager of the Seaboard Air Line and B. C. Prince, Norfolk, Va., freight traffic manager.



# IRON, STEEL AND METAL MARKET

## General Conditions in the Steel Trade Almost Too Good to Be True.

Pittsburgh, March 18—[Special.]—The only fault being found in any quarter with the state of the steel trade is that it is too good to last, but that argument is neither precise nor logical. Unless consumers are accumulating stocks, and there are merely some faint suspicions of anything along that line, activity something like the present can last, for there are some lines of consumption that are not particularly active, and therefore have possibilities of taking more steel in future, fabricated structural steel construction being an example. It has been about 20 per cent less active in the last five months than in the preceding five.

Steel production is making a new record this month by a wide margin. Even last month's production was nearly 5 per cent above the previous high rate, in both April and October of last year, the two months being practically identical, and production is running several per cent higher this month than last. Practically the only idle capacity is in Bessemer steel, and Bessemer steel would be in more demand if more pipe were being made.

Steel is shown to be very active by any comparison. Production in January and February of last year made a new high record for those months, but the same months this year show 10 per cent increase. This is an abnormal increase, for a single year, since from 1923 to 1928, five years, there was only 16 per cent increase in annual production.

Common talk credits the automobile industry with the major part of the increase in steel demand, but that is giving the automobile industry undue prominence. Last year it consumed more steel than ever before, but not over 18 per cent of the total steel output. As observed in this report a week ago, January-February automobile production was 29 per cent above normal expectancy, and 29 per cent of 18 per cent is only a little over 5 per cent, which means in a general way if automobile production were only normal, total steel production would be only about 5 per cent less than it actually is, and it would still be record high.

The agricultural implement industry is running at record high rate, by a wide margin, and that accounts for a great deal of steel. Production of line pipe, chiefly for natural gas, is very heavy, being produced principally at Milwaukee by an electric welding process, with plates made in the Chicago district. Two large natural gas lines are still to be placed, both to run from the Monroe field, Louisiana. One, which may be placed any day, will extend to St. Louis, while the other, which may come to a head within a couple of months, will extend to Birmingham, Chattanooga and Atlanta, with a total of 1200 miles of main line.

On an average, peak production of steel is reached in the second half of March, with a decrease of 15 to 25 per cent to the summer trough, in July. All appearances now are that the high rate will continue until late April if not early May, while there is no visible indication that the decrease thereafter will be large.

Steel prices are not a subject of much interest at the present time. In at least half the lines it requires pressure upon mills to secure desired deliveries on contract and buyers are well covered by contract. Advanced prices are scheduled for second quarter in various lines, but deliveries on existing contracts will run into that period. In no line is there any weakness.

The Connellsville coke market has grown a trifle easier as to spot furnace coke, there being little current demand, while spot foundry coke is quotable up 25 cents, at a range of \$4 to \$4.50, this being the first definite price change since the

decline at the beginning of last year, in keeping with a wage reduction then effective.

Scrap supplies are rather tight and many mills would like to have heavier deliveries than they are securing.

Standard Sanitary Manufacturing Company has bought 10,000 to 15,000 tons of valley foundry iron for second quarter delivery to its Pittsburgh and New Brighton works, at \$17.50, valley, the regular market, and will probably buy Southern iron this week for its Louisville plant. Valley furnaces have marked both basic and foundry grades up 50 cents to \$18, but the new price has not been seriously tested. The advance was simply timed to let Standard Sanitary, in first.

## Copper Again a Leader With Advance in Price—Strong Tone in Lead.

New York, March 18—[Special.]—Copper has reassumed its leading role among the metals. Without warning the price was lifted  $\frac{1}{2}$ c per pound on Tuesday to 20c per pound for domestic delivery, being advanced the same amount for export the next day to  $20\frac{1}{4}$ c c.i.f. European ports. On Thursday it rose another  $\frac{1}{4}$ c to  $20\frac{1}{2}$ c. No one will predict where the advance will stop and old-timers in the business state they have never seen the market "more in the air." The announcement of February statistics was the trigger which shot prices skyward. These showed a reduction of nearly 18,000 tons in total blister and refined stocks and a reduction of 7,500 tons in surplus refined stocks.

Lead has been exceedingly strong in tone but unchanged in price at 7.25c per pound, New York, and 7.15c, East St. Louis. Buyers of lead take the situation more coolly than in the case of copper consumers, though the lead situation is also extremely tight. The feature in zinc was the reduction by 5,000 tons in surplus stocks during February and the largest shipments for the month since July, 1928.

Tin was not without feature from a negative standpoint, so to speak, because the lowest levels so far this year were reached when Straits tin sold at  $48\frac{1}{4}$ c per pound and standard tin at 48c. World consumption of tin is probably at a record high, but the situation differs from that in copper in that production has been gaining faster than consumption and there is lacking the control of output that prevails in copper.

The minor metals have been without feature except in quicksilver. Here prices have been raised another 50c to \$1 per flask, present quotations being \$124 to \$124.50 per flask. Surplus stocks of quicksilver in this country are at a low ebb and American users are drawing more heavily on stocks from Spain and Italy. The antimony market has firmed somewhat, sellers holding to  $9\frac{3}{4}$ c per pound, duty paid, as against  $9\frac{1}{2}$ c a week ago.

The metals are somewhat inspired by the brilliant performance in the steel industry. March steel production promises to be a new high record from two standpoints, aggregate tonnage for a month (since March has 27 working days) and from viewpoint of daily production. Many believe that steel operations are at their peak and the same probably holds for the metals kindred to steel.

Surplus stocks of refined copper on February 28 were 55,213 tons as against 62,749 tons at the end of January. Stocks are the lowest since November. The record low was 45,648 tons at the end of last October. Even the 55,213 tons are said to be a theoretical reserve only, much of this reserve already being loaded on cars and perhaps by now en route to destination.

The present price of copper is the highest since 1919, when the quotation reached  $23\frac{1}{2}$ c per pound. The highest for the

past twenty years was 37c per pound in 1917, when the war demand was at its zenith. Copper producers were trying hard to avoid making sales during the past week because of difficulty of supplying it. Books were opened reluctantly for July shipment since producers had but little metal for prior shipment. Yet there has been considerable demand for early shipment, April, for instance, showing that much of the demand is for urgent needs and not for speculation. Copper sales have been particularly heavy, amounting some days to 10,000,000 pounds. It is estimated that foreign users have still to buy 275,000,000 pounds before July. Copper has been behaving spectacularly on the London Metal Exchange, advancing one day nearly £4 per ton. The London market therefore shows the same lack of stabilization as the domestic market.

The National Metal Exchange has decided to deal in standard copper futures, starting some time between April 15 and May 30. So far, tin is the only metal dealt in there. According to the daily press, copper consumers have been appealing to Washington for a Government investigation of the rapidly rising prices.

The price of slab zinc has been unchanged all week at 6.35c per pound, East St. Louis, but in view of the sharp reduction in stocks of both ore and smelted product higher prices seem likely, possibly this week. Demand for zinc has been moderate and steady. The official price has been shaded by 2½ to 5 points virtually every day of the past week. Stocks of slab zinc in producers' hands in this country are about 40,000 tons and stocks of ore are about 17,000 tons.

Tin has been fairly active, consumers buying in fair proportions because of the bargain prices. From Wednesday on prices were advancing as a reaction from the attainment of a new low point. Prompt tin can be bought about ¼c per pound cheaper than far distant futures.

### Activity Maintained in Pig Iron.

Birmingham, Ala., March 18—[Special.]—Twelve blast furnaces in the Birmingham district are manufacturing foundry iron, six are on basic and special brand. Delivery of foundry iron has been quite active recently, consumers accepting the product in accordance with contracts made during the last three months, furnace interests manifesting an inclination to close all sales at the end of each quarter. Indications point to a strong melt during the second quarter and every prospect is that production will be maintained. Result of the steady manufacture of pig iron is noted in an increased output of raw material, ore mines being started up after idleness for some time and coke works being kept in active operation. Some of the furnace companies still report reduction of surplus foundry iron.

Survey of the melting end of the business shows active conditions with a feeling of confidence that there will be continued production if not an increased output. Cast iron pressure pipe makers are making heavy shipments with several specifications still in sight.

Pig iron quotations are firm on the \$16.50 per ton base. No. 2 foundry, pressure pipe still held at \$37.00 to \$38.00 per ton, six-inch and over sizes.

In steel circles there is much doing in the way of production and also in shipment. Reports are current that there is more business coming in right along and that prospects are bright. With the exception of rail, there is demand for various shapes of steel and the mills are going to capacity in several instances.

Pullman Car & Manufacturing Corporation has received additional orders and the car works of the Tennessee Coal, Iron & Railroad Company at Fairfield is producing cars again. Fabricating of steel to meet the requirements of car building has been under way for some days now and actual production of cars is being taken up. Texas & Pacific Rail-

road has placed an order here for 500 stock cars and the Nashville, Chattanooga & St. Louis Railroad will take 800 under-sills. Together with the orders for 500 box cars from the Louisville & Nashville Railroad, 300 steel underframes from the St. Louis & San Francisco Railroad and 50 underframes for cabooses from the Texas & Pacific Railroad, the Pullman Corporation is getting a fairly good start. Stacks of the old Nos. 1 and 2 blast furnaces at Bessemer have been pulled down and site is now being made ready for the new car works for the Pullman Corporation. It is estimated that by late summer this plant should be nearing completion. Employment is to be given upwards of 1500 men in the new works and around 35 cars a day will be turned out. The steel will be furnished by the Tennessee Coal, Iron & Railroad Company. The Ingalls Iron Works Co., Inc., is now fabricating structural steel for the works.

Gulf States Steel Company expects to have its new 40-inch blooming mill and universal sheet and plate mill at Gadsden completed by the end of the year. Better conditions are reported with this company, all six of its open hearth furnaces are now in operation, while the larger bar mill at Gadsden is on day and night turn. Construction of the blooming mill and combination sheet and plate mill will further diversify the products of this company, now the largest independent steel company in the South.

Executives and editors of the McGraw-Hill Publishing Company, New York-Chicago, publishers of several trade papers and magazines, spent a day in Birmingham recently, being shown the immediate industrial section and the residential portions of Birmingham. Current gossip is to the effect that plans have been suggested for Southern headquarters of the various publications.

Coal mining shows little improvement. Coke is firm with much coke being used in the home territory and also shipped to the Middle West and elsewhere. Price base is \$5 on foundry coke, with production at greater pace than for some time past. Scrap iron and steel continues firm with dealers booking orders quietly for delivery during the next 60 days. Quotations have changed little.

#### PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$16.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$17.00; iron of 2.75 to 3.25 per cent silicon, \$17.50; iron of 3.25 to 3.75 per cent silicon, \$18.00.

#### OLD MATERIAL.

Old steel axles .....	\$17.00 to \$18.00
Old iron axles .....	17.00 to 18.00
Old steel rails .....	13.00 to 14.00
Heavy melting steel .....	10.50 to 12.50
No. 1 cast .....	14.00 to 15.00
Stove plate .....	12.50 to 13.00
No. 1 railroad wrought .....	10.00 to 11.00
Old car wheels .....	12.00 to 13.50
Old tramcar wheels .....	13.00 to 14.00
Machine shop turnings .....	8.00 to 9.00
Cast-iron borings .....	8.00 to 9.00
Cast-iron borings (chem.) .....	13.00 to 14.00

### World's Steel Exports in 1928.

The world's total exports of steel in 1928 reached a new high record, 27 per cent above the pre-war trade, the National Foreign Trade Council reports. It was not until 1926 that steel exports were able to approximate the 1913 level. The five principal steel producers—Germany, France, Belgium-Luxemburg, Great Britain and the United States—last year exported about 21 per cent of their joint production of approximately 100,000,000 tons, while their exports in 1913 totaled about 17,050,000 tons.

The 1928 exports were divided as follows: Germany, 5,030,000 tons; France, 4,950,000 tons; Belgium-Luxemburg, 4,250,000 tons; Great Britain, 4,605,000 tons; United States, 2,863,000 tons. The United States made the largest gain over 1927, about 660,000 tons, with Germany next and Belgium-Luxemburg alone showing a loss. While the United States is the largest producer of steel, it exports only about 30 per cent, Great Britain and France more than 50 per cent and Belgium-Luxemburg about 85 per cent.



# AVIATION, AIRPORTS AND AIRWAYS

## AIRPLANE FACTORY SITE PURCHASED NEAR BALTIMORE.

**Work on First Unit to Cost \$2,500,000 to  
Begin at Once.**

Formal announcement that the Glenn L. Martin Company, manufacturer of airplanes, has purchased property at Middle River, Md., in the metropolitan district of Baltimore, not only promises stimulation for aeronautics and its allied industries in the South, but also marks the migration of still another great manufacturing plant to the South. The plant hitherto has been situated at Cleveland, Ohio. For three years, Mr. Martin searched the country for the most favorable site for his great plant, while a representative of the industrial bureau of the Baltimore Association of Commerce traveled more than 8000 miles by automobile in five months, participating in the investigation.

The plant will occupy a tract of 1200 acres, and work of clearing the site will be started at once. The first unit of the factory will have 300,000 square feet of floor space and about 2500 persons will be employed. Contract for the steel to be used in the brick and steel structure has been made with the McClintic-Marshall Company, and the first unit is scheduled for completion next September. About \$2,500,000 will be invested in the first unit, and airplane production from this unit is estimated by Mr. Martin at from \$4,000,000 to \$5,000,000 in value, a year. At the outset, production will be limited to army and navy planes, but later the manufacture of commercial planes of improved types will be undertaken.

Inclusive of the first unit, the factory building now proposed will cover about 22 acres, and 200 acres will be reserved for factory expansion. The factory will be 1083 feet long and 900 feet wide and the first unit will compose about one-third of the structure. The property has a railroad frontage of about a mile and a half and is bounded by water on two sides. A main state highway to Philadelphia runs near the proposed factory and other highways communicate with the heart of Baltimore and with other places. Middle River at the airport site has a depth of about 10 feet.

About 20 per cent of the labor will be highly specialized, but the remainder will not require unusual technical skill. Both types of employees will be recruited mainly in Baltimore and its environs. The Martin company already has a temporary factory in a warehouse near Colgate Creek.

In addition to this development, the city of Baltimore plans development of a great site near the Martin plant for an airport of the latest type. Plans for a municipal loan will be submitted to the people and immediately on its approval the work will be undertaken.

## Colonel Lindbergh at Brownsville Airport.

Formal opening of the municipal airport at Brownsville, Texas, culminated last week in the departure of Colonel Lindbergh for Mexico City with a consignment of airmail over that new route. Colonel Lindbergh's plane carried 640 pounds of mail and 16 passengers and an accompanying plane carried 134 pounds of mail and a full passenger list, while more than 800 pounds of mail was left at the Brownsville postoffice because of lack of plane space. The Brownsville airport embraces about 500 acres and more than \$200,000 has been spent in putting it in condition. A large steel hangar has been erected and another has been contracted for, and a revolving beacon has been installed. Boundary and obstruction lights have been put in place and the field will be one of the finest of its size in the country.

## Southern Air Service for Foreign Travelers.

Close connection by air service between the South and steamships to and from foreign lands through northern ports may develop through expansion of such service between New York and the West, planned by P. W. Chapman, Chicago and New York banker, who recently purchased 11 passenger vessels from the United States Government. Trains connecting with outgoing and incoming steamers are known as "boat trains," and these it is planned to supplement or replace by airplane service, enabling persons who are going abroad from the South to leave their homes later, or to reach their homes more quickly on return from their travels. Twin-motored, all-metal monoplanes, each to carry 20 passengers, are planned and one of this type is undergoing tests at the Anacostia field, near Washington. Suggestion also has been made that the Leviathan and others of Mr. Chapman's steamers be equipped with "flying decks," for alighting or taking off by airplanes, in order further to curtail traveling time. "We expect to shorten travel time between Europe, Chicago, St. Louis and other points by many hours," Mr. Chapman recently said, "by having air transport available for those who wish to travel in a hurry." It is figured that a person landing at Hoboken, N. J., at 10 o'clock in the morning will reach Chicago for dinner on the same day and St. Louis and other points a little later.

## New Navy Secretary Visits Air Field.

As one of his first official acts after his induction as head of the Navy Department, Secretary Charles Francis Adams last week visited the air station at Anacostia, outside of Washington, and with Rear Admiral William A. Moffett, chief of the bureau of naval aeronautics, inspected the naval flying force. Admiral Moffett has been reappointed head of the bureau, for his third term in that position. The appointment of Ernest Lee Jahncke of New Orleans as Assistant Secretary of the Navy may turn the attention of naval aviators to the South in the development of that branch of the service.

## Airmail Service to South America Planned.

Airmail service between Miami, Fla., and Mollendo, Peru, with Buenos Aires in the Argentine as the eventual terminal, is planned to open April 1 by the Pan-American Airways, according to James D. Summers, vice-president. The principal points of call will be Miami, Key West, Havana, Merida, Mexico; Tegucigalpa, Managua, San Jose, Costa Rica; Colon, Bonaventura, Columbia; Caraquez, Ecuador; Talara, Peru; Trujillo, Chimbote, Lima, Mollendo, Arequipa, Iquique, Chile; Antofagasta, Valparaiso, Santiago and Buenos Aires.

## Water Contract for Montgomery Airport.

Contract for the water supply at the Montgomery, Ala., municipal airport has been let to the Layne-Central Company of Memphis, Tenn., and work has been started on a well for a daily capacity of 45,600 gallons. A pressure tank, six feet in diameter and 28 feet long, with capacity of 6000 gallons, will be made in Montgomery. The Layne-Central Company is said by J. D. Nolan, sales engineer at the Montgomery office, to have contracts at Robertsdale, Clayton, Abbeville and Geneva, and has finished a contract at Mobile.

## Fire Protection for Airports.

The necessity for adequate protection of air fields against fire has been cited since a recent outbreak at Curtiss Field, N. Y., which caused a loss of \$18,000. The fire was attributed to a grass fire in a nearby field, which spread to the aviation field.

## GOOD ROADS AND MOTOR TRANSPORT

### \$65,000,000 Road Bond Bill Passes South Carolina Legislature.

Columbia, S. C.—Both houses of the Legislature have adopted the free conference report on the state road bond bill, which authorizes \$65,000,000 for the construction of an adequate highway system in the state. The bill, which carries a provision that not more than \$20,000,000 shall be issued in any one year, will now go to the Governor, who is said to favor it.

### Bids Invited on Six Arkansas Bridge Projects.

Little Rock, Ark.—Proposals will be received until March 29 by the State Highway Commission, Dwight H. Blackwood, chairman, for the construction of six bridge projects, including the following:

**Baxter County**—Reinforced concrete deck girder structure, 60 lineal feet.  
**Clay County**—Treated timber pile bent approach to St. Francis River bridge.  
**Jefferson County**—Reinforced concrete deck girder bridge over Cayney Bayou.  
**Quachita County**—Reinforced concrete and treated timber bridges and 163 lineal feet of earth embankment.  
**Polk County**—Reinforced concrete deck girder bridge over railroad tracks, 126 lineal feet.  
**Randolph County**—Structural steel and reinforced concrete bridge across Current River.

Plans and specifications for the work are on file at the office of the State Highway Department.

### Good Roads Help to Cut Costs.

The press, good roads and modern trucks are in a natural alliance which may in 1929 contribute powerfully to a reduction of America's high merchandise-distribution costs, estimated at 60 per cent by some economists, according to Paul W. Seiler, president of the General Motors Truck Company, Pontiac, Mich. "Cutting distances and time, getting full and free flow of commodities between the great, modern 'inner-city' and the rich 'outer-city' involves paved roads of quality and quantity both adequate, and modern trucks have already contributed a great deal toward this result," Mr. Seiler says. He adds that "their full use in the basic industry of commercial transportation cannot really begin until adequate road-building programs are a reality."

### Arkansas Postpones Sale of \$28,000,000 Road Bonds.

Little Rock, Ark.—State officials announce the postponement of the sale of \$28,000,000 Arkansas road and bridge bonds from March 12 to March 28 and at the same time raised the limit of the interest rate from 4½ to 5 per cent. The issue consists of \$23,000,000 highway bonds, due from 1935 to 1962, inclusive, and \$5,000,000 toll bridge bonds, due from 1930 to 1954, inclusive.

### Virginia Asks Road and Bridge Bids.

Richmond, Va.—Bids will be received until March 26 by the State Highway Commission for the construction of two highway and one bridge projects, the former covering 4.9 miles of rock asphalt in South Norfolk, and .38 mile of gravel near Deep Creek in Spotsylvania County. The bridge, 180 feet long, will be located about five miles from Seven Pines in Henrico County.

The Louisville Bridge Commission, William Black, chairman, Louisville, Ky., receives bids until March 27 for furnishing lighting and electrical equipment for the municipal bridge.

### \$4,500,000 Mt. Vernon Memorial Highway Begun.

Work of preparing the roadbed of the proposed Mt. Vernon Memorial Highway, to be built between Washington and Mt. Vernon, at a cost of \$4,500,000, has been started, according to E. E. Duffy, of the Portland Cement Association, Chicago. The memorial highway, which will be more of a parkway, it is said, will have a 200-foot right-of-way, on which the initial pavement will be 40 feet wide, with additional hard-surfacing to be laid when traffic demands it. The roadway will be more than 15 miles long, grade intersections with railways and all other heavily traveled roads to be entirely avoided by means of overpasses and underpasses. Further insurance against accident will be provided by 10-foot dirt shoulders on either side of the pavement.

Seven or eight modern and ornamental bridges will be built, carrying roadways 60 feet wide, in order to preclude traffic jams. Landscaping will proceed along with the construction of the road and parking spaces will be provided between the highway and the Potomac River, which the road will skirt. The road is expected to be completed by 1932 in time to be dedicated at the celebration of the 200th anniversary of the birth of George Washington.

The construction of the road was authorized by Act of Congress approved May 23, 1928, which directed the Bureau of Public Roads of the United States Department of Agriculture to survey, construct and maintain a memorial highway to connect Mt. Vernon with the Arlington Memorial Bridge across the Potomac River at Washington. The highway is being sponsored by the United States Commission for the Celebration of the Two Hundredth Anniversary of the Birth of George Washington.

### Great Possibilities for Sale of Road Building Equipment in Latin America.

The launching of highway building programs on an extensive scale in the countries to the south of us in Central and South America will do much to speed up the road building machinery industry in this country, manufacturers declare. A great amount of American products has already been sold and the tendency in large measure is to follow American construction practices. The development of our export trade is receiving the careful attention of this country's road building machinery firms. Organization of a group of manufacturers, interested in extending their activities in foreign fields, is proposed, to operate under direction of the Pan-American division or the manufacturers division of the American Road Builders Association.

### Bids Asked on Charleston (W. Va.) Bridge.

Charleston, W. Va.—Bids will be opened April 10 by the Kanawha County Court, R. N. Moulton, clerk, for constructing the superstructure of the St. Patrick Street bridge. Contract for the sub-structure was awarded several weeks ago to the Atlantic Bridge Co., Greensboro, N. C., at approximately \$176,000.

### Jacksonville Asks Bids for Paving.

Bids will be opened March 25 by the City Commission of Jacksonville, Fla., W. E. Sheddan, city engineer, for 25 small paving projects, to include approximately 29,000 yards of concrete pavement, 15,000 yards of asphalt pavement, 15,000 yards of new brick on limerock base pavement, and 16,000 yards of relay brick on limerock base pavement.



## TEXTILE

### Contracts on Goodrich Martha Mills Addition.

General contract for the construction of the addition to the Martha Mills at Thomaston, Ga., for the B. F. Goodrich Rubber Co., Akron, Ohio, which was awarded to the Batson-Cook Co., West Point, Ga., embraces approximately 300,000 square feet of additional floor area in the mill building proper. The increased floor space will permit the installation of approximately 50,000 spindles and bring the total spindleage to 80,000. Contract for 30,000 new spindles, with accompanying preparatory machinery, has been awarded to the Saco-Lowell Shops, Boston, Mass., at a cost of about \$1,200,000, it is said. The Batson-Cook contract also includes the construction of 510 cottages. Robert & Co., Inc., Atlanta, are the engineers.

### Cowikee Mills Purchase Another Unit.

The Cowikee Mills of Eufaula, Ala., Donald Comer, Birmingham, president, has acquired another small mill unit at Eufaula and plans to improve some of the best machines, besides installing some new equipment, which has already been purchased. The new unit will be known as Cowikee Mills No. 3 and will manufacture insulating yarns.

### Brighton Mills to Move Machinery South.

Shannon, Ga.—The Brighton Mills, Passaic, N. J., parent organization of the Southern-Brighton Mills here, will remove all machinery from their mills at Passaic and Allwood, N. J., to this plant, according to Julian K. Morrison, president and treasurer. It is stated that 125 additional dwellings will be built here at a cost of approximately \$200,000 and that the factory force of the Southern-Brighton Mills will be increased from 700 to 1000.

### Textile Industry Develops in the South.

Continued expansion of the textile industry in the South, despite a general slowing up of production in 1928, is shown by the Textile Directory of the Southern Railway System for 1929. According to this authority, there are now 18,615,284 spindles in cotton mills in the cotton-producing states, as compared with 16,648,762 in other states. Since 1922, there has been a net decrease of 4,364,632 spindles in mills outside the South, compared with a net increase of 2,443,327 in the South. About 75 per cent of the spindles in the South are at points served directly by the Southern System.

## Completing Textile Mill at Dyersburg, Tenn.

An example of modern industrial practice is the relocation of the Oswego Yarn Mills of Oswego, N. Y., the Adrian Knitting Company and the Adrian Knitted Products Company of Adrian, Mich., in one mill at Dyersburg, Tenn. They will be known as Dyersburg Cotton Products Company. This new mill, of 20,000 spindles and 1000 knitting machines, is the first important unit which has the spinning directly in tandem with the knitting. The mill is completely equipped for bleaching and dyeing, also.

The president of the Dyersburg Cotton Products Company is Ladd J. Lewis, Jr. Plans, specifications and supervision are by Robert & Co., architects and engineers, Atlanta, the work being under direction of J. M. Shelton. The representative of Robert & Co. on the job is Alfred E. Ogram. Contractor on the general construction work is the Gauger-Korsmo Construction Company of Memphis, W. H. Worden being in charge of construction. Heating, elevators, sprinkler systems and other mechanical work are being handled under separate contracts with the concern. The equipment is being installed by the owners. The following buildings comprise the unit:

Spinning and knitting mill, 667 feet by 135 feet; two stories; standard mill construction, using brick walls, steel sash, steel frame, wood floors. Dye and bleach house, 168 feet by 135 feet; part one story and part two story; same construction.

Warehouse and opener room, 100 feet by 300 feet; one story; frame construction, brick walls, the building being divided into

sections of 50 feet by 110 feet by brick fire walls. Boiler house, 40 feet by 45 feet; one story; steel frame covered with corrugated sheet iron.

Sub-contractors on the work under the Gauger-Korsmo Company are: Jack knife doors, Akers & Co.; material testing, Barrow-Agee Laboratories, Inc.; roofing, Bartholomew Roofing Company; face and common brick, Corinth Brick Company; sewer pipe, W. S. Dickey Clay Manufacturing Company; steel sash, Fischer Lime & Cement Co. (Truscon Steel Co.); lumber, Marsh & Truman Lumber Co. and Long Leaf Yellow Pine Manufacturers Association; plumbing, J. W. Hull Plumbing & Heating Company; reinforcing steel, Laclede Steel Company; freight elevator doors, Miller-Cochran Company; sand and rock, Wolf River Sand & Gravel Company; gravel, Ohio River Sand & Gravel Company; glass and glazing, Pittsburgh Plate Glass Company; miscellaneous steel, Price-Evans Foundry Company; cast iron work, Memphis Machine Works; cement, Signal Mountain Portland Cement Company; brick cement, Southern Cement Company; creosoted lumber, Southern Wood Preserving Company; excavation, G. C. Sparkman & Co.; steel erection, J. C. Stockett Company; structural steel, Virginia Bridge & Iron Company; sheet metal, J. G. Weatherall.

Other contractors are: Elevators, Weakly Elevator Co., Atlanta; humidifying system, Parks-Cramer & Co., Charlotte; sprinkler system and heating, Rockwood Sprinkler Co.; water tower and tank, R. D. Cole Mfg. Co., Newnan, Ga.



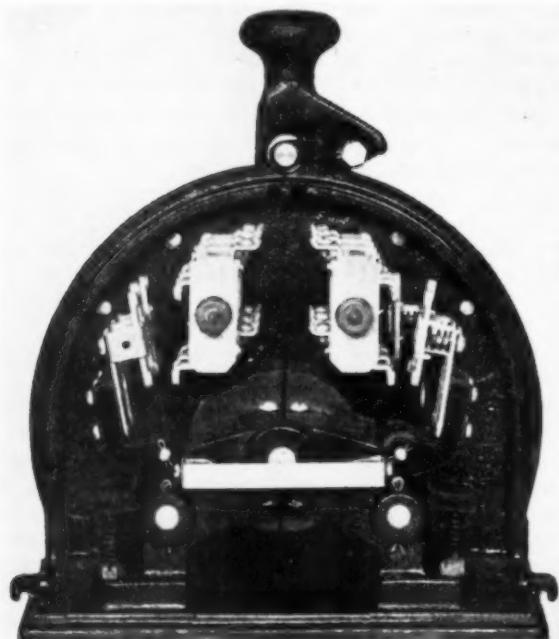
MAIN MILL BUILDING NEAR COMPLETION.

## NEW AND IMPROVED EQUIPMENT

### New Switches Have Wide Applications.

A new line of cam-operated, double-break master and limit switches is announced by General Electric Company, Schenectady, N. Y. The limit switches bear the designation LS-429 and are expected to be of especial value in the steel industry and on such applications as skip hoists, car dumpers and other machines requiring geared type switches. The new master switches bear the designations C-3614 and C-3616, and are in general for the same type of service as the limit switches.

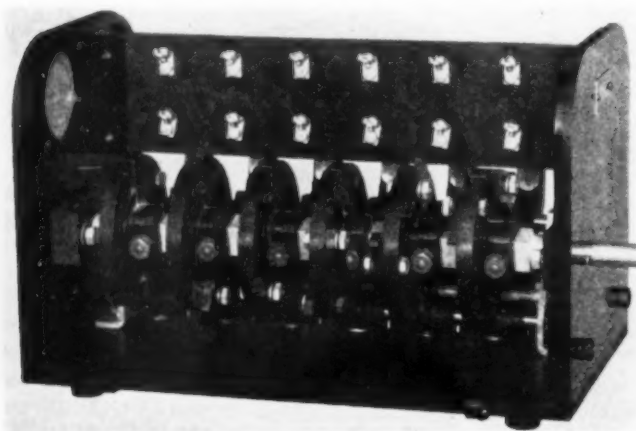
The limit switches can be adjusted by shifting, tripping and closing dogs on the cams. The contact mechanism is of the snap-action type and is latched in both the open and closed positions, giving a positive action to the switch and also allowing adjustment of the operating dogs to operate



MASTER SWITCH, WITH CAM-OPERATED DOUBLE-BREAK SILVER CONTACTS.

the contact mechanism through the entire 360 degrees of rotation. The master switches are available in three forms.

Outstanding features of the new line as listed by the manufacturer are as follows: Double-break, silver-faced contacts; no shunts to break and burn off; freedom of con-

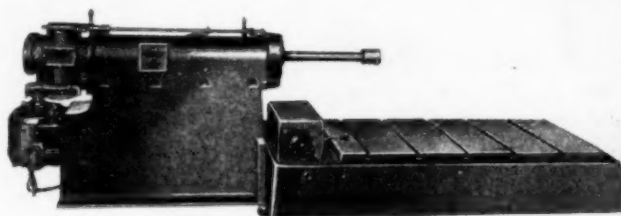


LIMIT SWITCH, WITH COVER REMOVED.

tact parts from dust and other accumulations; molded insulation on cams and contact arms; accessibility of molded terminal board for wiring; tips easily renewed and common to all devices in the line; small overall size and compact design.

### Heavy Duty Grinding Machine.

The model "MJ" horizontal heavy duty grinding machine recently brought out by the Hutto Engineering Company, Detroit, Mich., is used to drive Hutto grinders in the grinding of the inside surfaces of large cylinder bores and tubing. With this machine it is possible to grind cylinders ranging in diameters between 3 and 12 inches and up to 55 inches in



THE MACHINE THAT DRIVES THE GRINDERS.

length, producing cylinder bores, straight and round, well within commercial limits and with any desired finish. The spindle speed may be set at 100, 150 or 200 revolutions per minute, and reciprocating speed range is 50, 75 or 100, at a 4-inch travel.

This machine is equipped with a 7½ horsepower motor turning at 1800 revolutions per minute, and a one-quarter horsepower motor is used to drive the kerosene circulating pump. The table is used as a kerosene reservoir and has a capacity of 35 gallons. This type of machine is being used by the Superior Gas Engine Company and the R. K. LeBlond Company.

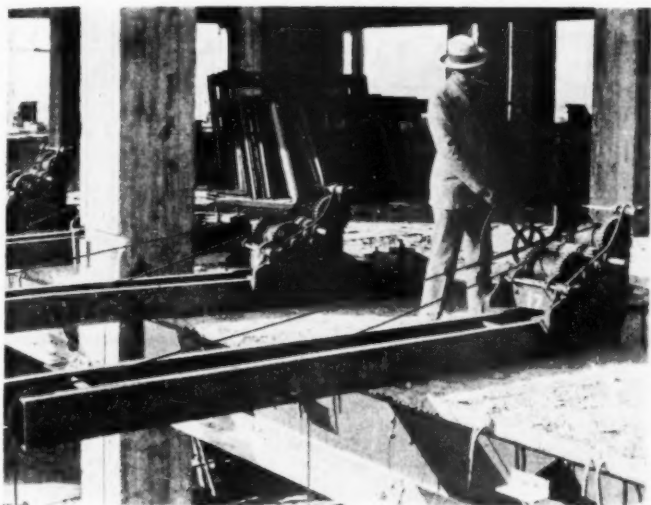
### Tradesmen's Scaffold Hoist.

A device designed to simplify construction work on high buildings and lessen danger to workmen has been patented by Paschal L. Bottoms, bricklaying contractor, Amarillo, Texas. It relates to improvements in scaffolds adapted to be used by bricklayers, plasterers, tile setters, carpenters, concrete workers, painters and structural workers, and in particular is intended to improve and render more durable, efficient and safe the hoisting devices by means of which the scaffold platform is suspended from above on the floor or the roof of the building, and to provide ease in raising and lowering the platform while steadying it against swaying movements.

Each hoisting device embodies a frame composed of a pair of channel beams rigidly connected in spaced parallel relation by means of bolts passing through the opposite end portions of the beams, and spacing sleeves fitted on the bolts between the beams. This frame is secured to the floor or roof, so as to project a distance beyond the front and secured at the lower ends by the bolts to the outer sides of the inboard. The ends of the beams are spaced upright, supporting plates or castings having inwardly projecting horizontal flanges intermediate, their top and bottom edges flatly seated on the beams.

The platform embodies boards laid across end transverse beams and held down by cross bars bolted to the beams and engaged at their ends beneath the eyes on the upper ends of eye-bolts anchored in the beams. In operating the device to lift the platform, the cranks and wheels are turned to



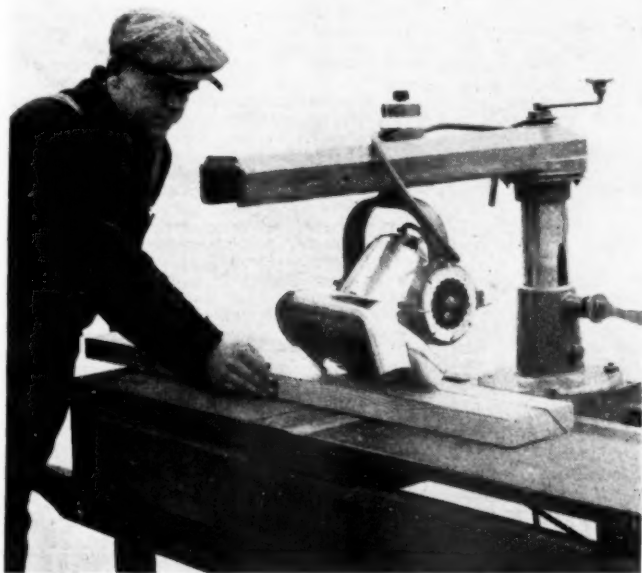


SHOWING METHOD OF HOIST OPERATION.

rotate the drums at the same rate of speed and wind up the two cables at the same rate, so that the platform will not be tilted.

### DeWalt Junior Woodworker.

The DeWalt Products Corporation, Leola, Pa., manufacturers of the DeWalt "Wonder-Worker," announce the addition of a new model, the DeWalt Junior, to their line of all-purpose electric woodworkers. The DeWalt Junior incorporates the exclusive features of the "Wonder-Worker" with balanced, guided power applied to the saw in all cutting positions, and other features. The motor operates from any cycle in either A. C. or D. C. by plugging in the nearest light



THE WOODWORKER IN OPERATION.

socket. This individual machine will handle 29 distinct cutting operations, including, dadoing, routing, mitering, shaping, grooving, ploughing, rabbeting, mortising, tenoning, gaining, etc. With 12-inch combination cross-cut and rip saw, as standard equipment, the DeWalt Junior rips 2-inch stock at the rate of 20 lineal feet per minute and routes one rise and tread stringer in 12 minutes. Fitted on a wooden table 29x59, the machine complete weighs 235 pounds. Another special feature is the roller bearing arm.

Standard equipment includes adjustable guard that fits down to the work and gives protection to the operator.

### Farm Implement Combination Represents \$125,000,000.

Thirty-two large independent makers and distributors of tractors, farm implements and industrial equipment in North America have announced final details of their organizing as the United Tractor and Equipment Corporation. Combined assets of the companies in the co-operative manufacturing and marketing movement are above \$125,000,000. Through several hundred selected dealers in the United States and Canada, the members, 15 manufacturers and 17 distributors, will market a full line of farm and industrial tractor equipment designed to be operated with their tractor, the United. The tractor is in full production under contract by the Allis-Chalmers Manufacturing Company, Milwaukee, a member of the corporation. The products of the members to be operated with the tractor will carry the United trademark and color scheme. Milton W. Anderson is president and general manager, with office at 612 North Michigan avenue, Chicago.

The United Corporation was made possible, it is declared, through Henry Ford leaving the American tractor field when he dismantled his tractor plant to gain needed space for making new car models. Ford built nearly 700,000 Fordsons and the new organization includes men active in his success, through their designing, manufacturing and distributing of the equipment that went with the Fordson.

Enrolled in the new corporation are these manufacturers:

Allis-Chalmers Manufacturing Company, tractors; the Wehr Company, road building machinery and rubber-tired industrial wheels, and the Trackson Company, logging hitches, full crawler attachments, cranes, bulldozers and backfillers, all of Milwaukee, Wis.; Brookville Locomotive Company, gasoline locomotives, Brookville, Pa.; Dorsey Brothers, stump pullers and land clearing equipment, Elba, Ala.; Hughes-Keenan Company, "Iron Mule" self-contained dump tractors, and the Roderick Lean Manufacturing Company, field type disc harrows, Mansfield, O.; C. H. Turner Manufacturing Company, sawmill equipment and cordwood saws, Statesville, N. C.; the Perry Company, scrapers, Perry, O.; Muskogee Iron Works, double and single-drum hoists and oil field equipment, Muskogee, Okla.; Brenneis Manufacturing Company, orchard harrows, Los Angeles, Cal.; Ferguson Manufacturing Company, wheelless plows, Evansville, Ind.; Universal Power Shovel Company, power shovels, Detroit, Mich.; Athens Plow Company, trailing and side disc plows, Athens, Tenn.; Moline Implement Company, general line of agricultural implements, Moline, Ill.

Distributors in the corporation are:

The Howard Cooper Corporation, Portland, Ore.; O. R. Peterson Company, Inc., San Francisco; B. Hayman Company, Inc., Los Angeles; F. D. Equipment Company, Dallas, Texas; Thompson Automobile & Machinery Company, New Orleans, La.; Dealers' Equipment and Implement Company, Memphis, Tenn.; Truck Tractor Equipment Company, Columbus, O.; Motor Power Equipment Company, St. Paul, Minn.; W. B. May, Inc., Buffalo, N. Y.; Cunningham-Ortmeyer Company, Milwaukee, Wis.; C. V. Ruble, Kansas City, Mo.; C. H. Turner Manufacturing Company, Statesville, N. C.; John M. Brant, Bushnell, Ill.; Dealers' Equipment Company, Oklahoma City; C. W. Bull Equipment Company, Houston, Texas; British Columbia Tractor Equipment, Ltd., Vancouver, B. C.; George A. Clark, Toronto, Ont.

The officers are: Milton W. Anderson, president and general manager; W. B. May, of W. B. May, Inc., Buffalo, N. Y., vice-president; E. R. Wehr, the Wehr Company, Milwaukee, secretary-treasurer; Walter Stiemke, the Trackson Company, Milwaukee, assistant secretary-treasurer. Directors, President Anderson, Mr. Stiemke, Mr. Wehr, Mr. May and H. C. Merritt, Allis-Chalmers Manufacturing Company; Arthur S. Hughes, Hughes-Keenan Company; Robert Lea, Moline Implement Company; A. W. Logan, Motor Power Equipment Company; B. C. Thompson, Thompson Auto and Machinery Company.

Committee chairmen are: Sales Promotion and Advertising, Walter Stiemke; Manufacturers, H. C. Merritt; Territorial and Membership, K. J. Miller, Truck Tractor Equipment Company; Adjustment, J. W. Ferris, F. D. Equipment Company; Export, C. H. Turner, Turner Manufacturing Company; Finance, A. G. Stratton, Agricultural Bond and Credit Corporation, Chicago.

# CONSTRUCTION DEPARTMENT

## EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

The date at the end of an item indicates issue of the Manufacturers Record in which earlier facts about the same enterprise were published.

## DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$40.00 a year.

### Airports, Airplane Plants, Etc.

Ala., Montgomery—City let contract to Layne-Central Co., Memphis, Tenn., for water supply at airport; work started on well to have daily capacity of 45,000 gal., pressure tank, 6-ft. in diameter, 28-ft. long, 6000-gal. capacity to be installed. 2-21

Fla., Point Washington—City plans establishing airport.

Ga., Fitzgerald—City establish airport; Chamber of Commerce, C. A. Newcomer, Pres., interested.

La., New Orleans—Southern Air Transport, Inc., issuing 100,000 shares capital stock, without par value, through James C. Willson & Co., New York City and Louisville, Ky., and Watson, Williams & Co., New Orleans, La.; company incorporated in Delaware; acquired entire outstanding common capital stock (except 12 shares) of Texas Air Transport, Inc., and of following companies: Dixie Motor Coach Corp.; T. A. T. Flying Service, Inc.; T. A. T. Flying School, Inc.; Texas Aeromotive Service, Inc.; Texas Air Transport, Inc., operates air mail routes in Texas; Gulf Air Lines, Inc., through wholly owned subsidiary, St. Tammany Gulf Coast Airways, Inc., operates air mail routes in Alabama, Georgia, Louisiana and Texas; Southern Air Transport, Inc., through its subsidiaries and controlled companies, will operate a system comprising over 3124 miles of air mail lines serving Texas, Louisiana, Mississippi, Alabama and Georgia. 2-28

Md., Baltimore—Glenn L. Martin Co., Glenn L. Martin, Pres., Leland and Ponca St., acquired 1,200 acres, Middle River, 10 mi. from city; establish landing field for land and water aircraft; erect airplane plant, for constructing naval, military and commercial airplanes; establish school for pilots, training mechanics and aircraft fabricators; service stations, hotels and restaurants, radio and telegraph facilities, water-front home development; begin work in few days on first unit of plant; 933 x 300 ft., 18-ft. clearance between floor and roof, supporting pillars to be 100 ft. apart; assembly hall, 300x125 ft., 24-ft. clearance; initial investment, \$2,500,000; erect hangars to accommodate 160 planes; 3 runways, 5,800, 6,000 and 6,700 ft.; McClinton-Marshall Co., Pittsburgh, Pa., has contract for 1550 tons steel for airplane plant. 3-7

Md., Cambridge—City plans establishing airport.

Miss., Natchez—City plans establishing airport.

Mo., Bridgeton—Municipal Airport Comm. granted Robertson Aircraft Co. authority to rehabilitate old hangar at city-owned flying field.

Mo., Kansas City—City receives bids in few days for \$35,000 airport passenger station; brick, terra cotta finish, 2-story, 84x43 ft.

Mo., Kansas City—Ray A. Rearwin, Salina, Kan., plans establishing airplane plant at Fairfax airport; manufacture Rearwin Ken-Royce, a biplane, powered with Curtiss Challenger engine.

Mo., Louisiana—City plans establishing airport.

Mo., St. Louis—Wright Aeronautical Corp., Paterson, N. J., establish plant for manufacturing Gypsy engines for light airplanes; expend \$150,000 for tools and other equipment; manufacture 200 engines per month, to be gradually increased to 400; 150 to 200 workmen to be employed; plant to be in operation by July 1; W. K. Swigert to be plant manager.

Mo., St. Louis—St. Louis Aircraft Corp., formerly Cardinal Aircraft Corp., subsidiary of St. Louis Car Co., erect assembly plant, Lambert-St. Louis Field; 80x120 ft.

Mo., St. Louis—John A. Love, head of Love, Bryan & Co., 400 Pine St., announced

Allied Aviation Corp., Inc., capital \$5,000,000, organized to own all capital stock of Lambert Aircraft Corp., which has acquired assets of Mono-Aircraft Co., Moline, Ill.; Aviation Accessories Corp., and Hurricane Aircraft Engine Co., which has acquired all assets of aircraft engine division of Velie Motor Co.

N. C., Rich Square—City plans establishing airport.

Okla., Ardmore—City has preliminary plans for \$60,000 airport; S. Mathews, Engr.

Okla., McAllister—City begin work on \$50,000 airport in Spring.

S. C., Charleston—John Nix & Co. plan establishing airport near city.

S. C., Charleston—City, Thomas P. Stoney, Mayor, leased 125 acres of Ten Mile airport to Crescent Air Service, Inc., Fox Bldg., Philadelphia, Pa.

Tex., Dallas—Fairchild Aerial Surveys, Inc., 270 W. 38th St., New York City, subsidiary of Fairchild Aviation Corp., undertaking program to better serve Southwest with aerial surveys and maps; installing new equipment in laboratory and map room; Stuart Moir, in charge.

Tex., Eagle Pass—City plans establishing airport.

Tex., Edinburg—City plans establishing airport.

Va., Ewing—City plans establishing airport.

Va., Grottoes—City plans establishing airport.

Va., Paris—City soon begin constructing \$50,000 airport.

### Bridges, Culverts and Viaducts

#### Proposed Construction

Arkansas—State Highway Comm. receives bids for 2 bridges. See Roads, Streets, Paving.

Arkansas—State Highway Comm. receives bids for 37 bridges. See Roads, Streets, Paving.

Ark., Arkadelphia—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, plans building bridges on Highway No. 8, in and near Amity, Clark County, including 2-span bridge across creek in Amity; Jess Bridges has contract to furnish gravel and sand for conc. work; graveling Highways 8 and 24 will start soon.

Ark., Clinton—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, receives bids Mar. 29 for 3 bridges, total length 506 lin. ft., struct. steel and rein. conc., and 443 lin. ft. earth embankment approaches thereto, Clinton-North road, State Highway No. 65; 7,117 cu. yd. excavation, borrow, 197,041 lb. rein. steel, 109,765 lb. struct. steel.

Ark., Texarkana—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, receives bids Mar. 29 for 4 bridges, total length 2,383 lin. ft., rein. conc. deck girder, on precast conc. pile bents, Fulton-Texarkana road, State Highway No. 67, Miller County; 1550 cu. yd. borrow, 4,082 cu. yd. conc., 859,674 lb. rein. steel, 12,785 lin. ft. precast conc. piling.

Fla., Jacksonville—Riverbank Development Co., H. H. Buckman, Pres., 130 Copeland St., is holding company for 9000-ft. bridge to be constructed over St. Johns River from Black Point to Beaulieu's Point; Western entrance to bridge, on southern edge of military reservation, known as Camp J. Clifford R. Foster, about 10 mi. from downtown Jacksonville; eastern entrance, over Beaulieu's road adjoining Jacksonville-St. Augustine highway south of Goodsby's Lake; cost \$1,000,000.

Kentucky—State Highway Comm. receives bids for 2 bridges. See Roads, Streets, Paving.

Ky., Ashland—War Dept., Washington, D. C., approved modified plan, Ashland Bridge Co., for bridge across Ohio River, Ashland.

Louisiana—Louisiana Highway Comm. received low bids for 22 culverts and 5 timber trestles. See Roads, Streets, Paving.

Maryland—State, Albert C. Ritchie, Governor, considering 2 bridges: Over Nanticoke River, Vienna, Dorchester County; over Chester River, Chestertown, Kent County. See Financial News.

Md., Baltimore—War Dept., Washington, D. C., approved revised plans, Public Improvement Comm., for 1,420-ft. steel and conc. bridge across Curtis Creek, in connection with widening and extending of Pennington Ave. to Marley Neck, to cross Cabin Branch causeway; drawbridge to be 150-ft. wide; estimated cost \$750,000; Wm. F. Broening, Mayor. 1-31

Md., Cumberland—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, receives bids Mar. 26 for 2 bridges in Allegany County; Extend existing brick arch, 30-ft. span, with conc. arch construction over Braddock Run, Mt. Savage Road, about 3 mi. west of Cumberland, Cont. AA-55; double span rein. conc. girder bridge, each span 24 ft., 24-ft. clear roadway, two 4-ft. sidewalks over Jennings Run at west end of Mt. Savage, Cont. A-57.

Miss., Pascagoula—City, V. P. DeJean, Clk., receives bids Apr. 2 for rein. conc. box culvert, east along Community Ave. from Canty St.; 421,000 lb. rein. steel; Franklyn H. McGowan, Consol. Engr., Ocean Springs.

N. C., Charlotte—City Comms., Marion Redd, Mayor, plans revising bids Mar. 27, for underpass on Seigle Ave., under Seaboard Air Line Ry. tracks. 12-13

Okla., Oklahoma City—City, E. M. Fry, Mgr., considering bridge at Exchange Ave.; W. W. Small, City Engr.

South Carolina—State Highway Dept., receives bids for 5 bridges and culverts. See Roads, Streets, Paving.

Tennessee—Dept. of Highways and Public Works receives bids for 22 bridges. See Roads, Streets, Paving.

Tenn., Elizabethton—Dept. of Highways and Public Works, R. H. Baker, Commr., Nashville, completed plans, etc., for bridge over Doe River on Stony Creek road; T. C. McEwen, State Highway Engr.

Tenn., Knoxville—Dept. of Highways and Public Works, R. H. Baker, Commr., Nashville, receives bids April 19 for state bridge over Tennessee River at U-T farm, estimated cost \$1,000,000; T. C. McEwen, State Highway Engr. 1-3

Tex., Anderson—Grimes County, Oscar A. Seward, County Engr., Navasota, receives bids soon for \$200,000 bridge across Navasota River, above high water mark, on east side of Southern Pacific R.R., on Highway No. 6, north of Navasota.

Tex., Dallas—Dallas County Comms. plan receiving bids April 15 for Lamar-McKinney Bridge from levee to levee, across Trinity River.

Tex., Fort Worth—State Highway Bridge Engr. G. G. Wickline, approved plans for 2 bridge locations and underpass near Sycamore Creek, under Missouri-Kansas-Texas R.R., on Burleson Road, Highway No. 2-3-15

Tex., San Saba—State Highway Dept., A. F. Moursund, Austin, completed plans for conc. low water bridge across Cherokee Creek on Pecan Belt Highway; replace conc. dip; D. Chadwick, Road Supvr.

Virginia—State Highway Comm. received low bids for 2 bridges. See Roads, Streets, Paving.



Va., Northwest—War Dept., Washington, D. C., approved plans, State Highway Dept., H. G. Shirley, Commr., Richmond, for bridge across Northwest River at Northwest under State law.

Va., Princess Anne—State Highway Comm., H. G. Shirley, Commr., Richmond, receives bids Apr. 2 for driving 2290 ft. precast piling for bridge over Little Creek, State Highway Route 500.

Va., Richmond—Common Council approved overhead bridge at Twenty-first and Decatur St., across Atlantic Coast Line tracks, to remove grade crossing; cost \$70,000.

W. Va., Shinnston—State Road Comm., Charleston, plans letting contract within next 2 months to complete bridge across West Fork River, Shinnston; W. S. Downs, Div. Engr., Morgantown.

#### Contracts Awarded

Ala., Mobile—Mobile County Bd. of Revenue and Road Commrs. let contracts for 2 bridges. See Roads, Streets, Paving.

Md., Baltimore—Bd. of Estimates approved recommendation of Howard R. Pratt, Ch. Engr., Western Maryland R. R., to let contract to J. L. Robinson Construction Co., 522 Park Ave., \$339,450, for railroad's section of Hanover St. viaduct, McComas to Cromwell St.; 100,000 yd. fill, 500 tons struct. steel, 40,000 ft. precast conc. piles, 150 tons rein. steel, 45,000 ft. granite work, 6,000 yd. concrete. 2-17

Miss., Paacagula—Jackson County Bd. of Suprvs., Fred Taylor, Clk. let contract to Nashville Bridge Co., Nashville, Tenn., for 100 tons fabricated struc. steel for Fort Bayou Bridge, Ocean Spring. 3-14

Tenn., Knoxville—City, Otto Roehl, Mgr. let contract to Mott Core Drilling Co., R. & P. Bldg., Huntington, W. Va., \$8,256, for test borings for \$1,500,000 Henley St. Bridge, over Tennessee River. 1-10

Tex., Dallas—Dallas County Commrs. Court, Charles E. Gross, County Auditor, let contract to McKenzie Construction Co., Santa Fe Bldg., \$343,439, for Cadiz St. conc. bridge across Trinity River; Rollins & Clinger, Constr. Engrs.; F. D. Hughes, Designing Engrs.; plans letting contract for paving. 3-14

Va., Wharfedale—Norfolk & Western Ry., W. P. Wiltsee, Ch. Engr., Roanoke, let contract to American Bridge Co., 30 Church St., New York, for 190 tons fabricated struc. steel for bridge at Wharfedale.

W. Va., Waverly—Chesapeake and Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, let contract to Langhorne & Langhorne Co., First Natl. Bank Bldg., Huntington, for masonry for Little Scioto River Bridge, between Waverly and Sciotoville, Ohio. 2-28

#### Canning and Packing Plants

Fla., Jacksonville—Federal Fruit Growers Assn. has plans by Carlos B. Schoeppl, Archt., Florida Theater Bldg., for cooling plant on Talleyrand Ave.; 1-story, 42x48 ft., rein. conc. and steel; composition roofing.

S. C., Fairfax—South Carolina Packing Corp. let contract to Emile Ritter of Varnville and J. J. Knopf, Fairfax, for erection of factory and warehouse; James Connelly, Varnville, has contract for artesian well. 3-14

Tenn., Morristown—L. S. Sloat acquired Alpha canning plant; will operate.

Tex., Nacogdoches—Roland Jones and associates interested in establishment of canneries.

#### Clayworking Plants

Ga., Macon—C. B. Reynolds, 3091 Huntington Ave., Cleveland, Ohio, reported, acquired Georgia White Brick Co. at Gordon.

Ga., Macon—P. W. Martin Gordon Clays, Inc., capital \$20,000, incorporated; Peter W. Martin, Masee Apt.

W. Va., Newell—Homer Laughlin China Co., East Liverpool, O., reported, preparing plans for \$1,500,000 pottery; has site of 11 acres; surveyors laying out tracts for plant.

#### Cotton Compresses and Gins

Miss., Gulfport—F. L. Matthews, Hattiesburg, construct compress; soon call for bids.

Tenn., Walden—W. E. Nichols plans rebuilding burned cotton gin.

Tex., Canutillo—Canutillo Gin Co., capital \$25,000, incorporated; J. K. Griffith, E. J. Jones.

Tex., Fresno—H. L. Taylor construct cotton compress, daily capacity 40 bales; 24x76 ft.; wood frame, iron clad; conc. floors; iron roof; J. M. Wright, 7130 Sherman St., Houston, Contr. for conc. work; The Murray Co., 3200 Williams St., Dallas, has contract for complete new ginning plant.

#### Drainage, Dredging and Irrigation

Fla., Fort Lauderdale—Canals—Broward County plans 76 mi. canals. See Financial News.

Md., Baltimore—Elmer E. Hammond, Harbor Engr., recommended dredging channel from bulkhead in front of plant of Procter and Gamble Co., Locust Point, to main ship channel, to cost \$4,750.

N. C., Beaufort—U. S. Engr. Office has low bid from Waldeck-Deal Dredging Co., 832 N. W. 12th Court, Miami, Fla., for dredging Section V of Wilmington to Beaufort extension, Intracoastal Inland Waterway, approx. 1,689,000 cu. yd. at 11.73 cents per cu. yd.

N. C., Wilmington—U. S. Engr. Office, 308 Custom House, let contract to Atlantic Gulf and Pacific Co., 15 Park Row, New York City, for Section Two of Intra-Coastal Inland Waterways, Wilmington to Beaufort extension; calls for dredging channel, 12 ft. deep, 90 ft. wide at bottom, from swansboro to New River; work to begin immediately. 2-28

Tex., Brownsville—Cameron County Water Improvement Dist. No. 11 voted \$500,000 bonds for ditches, canals and concrete lining, structures, etc.; V. L. Conrad, Engr. 2-28

Tex., McAllen—McAllen Development Co. let contract to C. O. Sheldon, for irrigation system, including 8 mi. conc. mains, laterals for canals, near here, at \$50,000.

Virginia—U. S. Engr. Office, 300 Custom House, Baltimore, Md., receives bids Apr. 1, for dredging 25,000 cu. yd. in Tangier Channel, Va.

Va., Norfolk—U. S. Engr. Office let contract to American Dredging Co., Mariners & Merchants Bldg., Philadelphia, Pa., for dredging 22-ft. channel through Rockland Shoals in James River; work to begin immediately. 2-21

#### Electric Light and Power.

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ark., Arkansas City—Arkansas Electric and Water Co. acquired Lambe and Demarke Light and Water Co., property including light and water plant, water tank, swimming pool.

Ark., Gravette—Doherty interests through Empire District Electric Co., Joplin Natl. Bank Bldg., Joplin, Mo., negotiating for lighting system.

Fla., Clearwater—City, H. H. Baskin, Mayor, plans installing white way on Cleveland St. and Fort Harrison Ave.

Fla., Tallahassee—Telogee Power Co., incorporated; G. L. Winthrop, W. P. Hollowell.

Ga., Atlanta—Georgia Power Co., reported, plans construction of steam electric power generating plant on Chattahoochee River, near here; plant will consist of 4 units of 100,000 h.p. capacity or 76,400 kw. each and 100 acres will be utilized; construction expected to begin as soon as material and machinery can be assembled; first unit to be built so that the three remaining units may be added later; buildings will be of brick and structural steel; plant will be equipped with single steam turbine generator of 100,000 h.p., will have 2 boilers to deliver steam at 450 lbs.

Kentucky—Southern Industries & Utilities, Inc., Maryland corporation, Robert H. McNeill, National Press Bldg., Washington, D. C., promoter, filed application with Tennessee Railroad and Public Utilities Comm., Nashville, Tenn., for development of hydro electric power plant at Aurora dam site on Tennessee River; initial development of 240,000 h. p. and initial expenditure of \$32,000,000; ultimate development of 528,000 h. p. and at cost of \$43,000; project contemplates overflow of 132,000 acres, about 96% of this will be within borders of Tennessee; water to be backed up as far as Pickwick Landing, in Southern Tennessee near Alabama line; W. G. Waldo, Ch. Engr.; Francis R. Weller, Inc., Associate Engr., Mills Bldg., Washington. 8-23

Ky., Louisville—Kentucky Utilities Co., Starks Bldg., constructing 1 1/4 mile transmission line increasing capacity of power line near Harlan, cost \$12,500; build 5 miles of 6600 volt line from Central City, via Sacramento and Bremen in western Kentucky, including sub-stations and transformers; build 25,000,000 gal. reservoir at Somerset, cost \$25,000; 33,000 volt sub-station at Morgantown to supply current to Sunlight Mining Co.

Ky., Louisa—Louisa Light and Power Co., closed contract with Appalachian Electric Power Co., Bluefield, W. Va., for transmission line Wayne, W. Va., to here.

Mo., Columbia—City call for bids about April 1 for power plant improvements, including 5000 kv-a. turbine, condenser, etc.; Burns & McDonnell Engineering Co., Engrs., 402 Interstate Bldg., Kansas City.

Mo., Joplin—Cities Service Co., 60 Wall St., New York, plans issuing \$50,000,000 5% gold debentures with non-detachable warrants for purchase of common stock of company, through Harris, Forbes & Co., New York, and Halsey, Stuart & Co., Chicago; new financing is for refunding purposes; operating subsidiaries include Cities Service Power & Light Co., which includes the Ohio Public Service Co., Cleveland, Public Service Co. of Colorado, Denver, and Empire District Electric Co., 414 Joplin St., Joplin; Empire Gas & Fuel Co., Bartlesville, Okla., Gas Service Co., 60 Wall St., New York, Arkansas Natural Gas Corp., Shreveport, La.

Mo., Salem—City votes April 2 on \$25,000 electric light bonds.

Mo., Windsor—Missouri Public Service Co., 72 W. Adams St., Chicago, reported, acquired Windsor Light & Power Co., Windsor and lighting plant at Galt.

N. C., Kinston—Tidewater Power Co., Fred A. Matthes, V.-P., Wilmington, plans 50 mile connecting transmission line to recently acquired holdings and power lines. 3-7

Oklahoma—Oklahoma Gas and Electric Co., Oklahoma City, J. F. Owens, V.-P. and Gen. Mgr., plans erecting Lincoln Beerbower generating station on Arkansas River near White Eagle; initial generating capacity 15,000 kw.; construction to begin immediately; complete in one year; most of equipment ordered and land secured; equipment includes superheaters, pre-heaters, etc.; water from river will be diverted by rein. conc. tunnel; build 2 miles railroad tracks; 2 high voltage, heavy duty transmission lines will connect plant to Enid and third line will connect station to electric company's power plant and transmission line system, on which are the major generating stations at Horseshoe Lake, near Harrah, Riverbank near Muskogee, and Byng near Ada and 15 auxiliary stations located throughout the State.

S. C., Beaufort—Low Head Water Power Co., Beaufort, plans hydro-electric development on Jericho Creek.

S. C., Blacksburg—Town votes March 26 on sale of electric lighting, transmission and power distribution system. 2-21

Texas—Southwest Utilities Corp., incorporated under laws of Delaware, wholly owned subsidiary of Empire Public Service Corp., Philadelphia, Pa., which will include Big Spring Public Service Co., Big Spring; Consumers Natural Gas and Power Co., Milam Bldg., San Antonio; Texas Electric Co., Texas Sewer Co., Southwest Ice Co., Minden Gas Co.; corporation furnishes through its subsidiaries electric light and power, natural gas, ice and sewer service to 10 cities in Texas and Louisiana; financing in connection with acquisition of subsidiary companies underwritten by Yeager, Young & Pierson, Inc., New York; Pirnie, Simons & Co., Inc., Springfield, Mo., and Cought & Co., Inc.; management of company will be under direction of executives of Empire Public Service Corp.; will soon offer \$1,400,000 first lien 6% bonds, Series A, with stock conversion privilege.

Tex., Marfa—City install white way system.

W. Va., Elkins—City voted \$135,000 electric light bonds. 2-21

#### Foundry and Machine Plants

Ga., Cartersville—Cartersville Foundry & Machine Co., John W. Jackson, Mgr., move plant to site south of town; erect 2 buildings, machine shop and foundry; equip foundry with modern machine for making soil pipe in large quantities.

Mo., Kansas City—Crago Gear and Machine Works, incorporated; Edward C. Crago, 4345 Benton Blvd.

Mo., St. Louis—Alleghany Tube and Steel Co., incorporated; L. A. Crancer, Pres., 1308 N. Main St.; manufacture pipe couplings, nipples and plugs; occupies 40,000 sq. ft. floor space, to be increased by 25,000 sq. ft.; install machinery and equipment to cost \$25,000; employ 120; increase production 300%.

Tenn., Athens—United Tractor and Equipment Corp., Milton W. Anderson, Pres. and Gen. Mgr., Chicago, Ill., capital \$125,000,000, reported, formed by merger of following: Athens Plow Co., Athens; Allis-Chambers Co.; Wehr Co. and Trackson Co., all Milwaukee, Wis.; Brookline Locomotive Co., Brookville, Pa.; Dorsey Bros., Elba, Ala.; Hughes-Keenan Co. and Roderick Lean Mfg. Co., both Mansfield, Ohio; C. H. Turner Mfg. Co., Statesville, N. C.; Perry Co., Perry, Ohio; Muskogee Iron Works, Muskogee, Okla.; Brennis Mfg. Co., Los Angeles, Cal.;

Ferguson Mfg. Co., Evansville, Ind.; Universal Power Shovel Co., Detroit, Mich.; and Moline Implement Co., Moline, Ill.

### Gas and Oil Enterprises

Ala., Birmingham—American Commonwealths Power Corp., 120 Broadway, New York, reported, announced will acquire from Birmingham Electric Co. gas properties in and about Birmingham, Bessemer and Fairfield, and towns of Tarrant City, Brighton and Hollywood and certain sections of Jefferson County.

Ark., Blytheville—Cherokee Public Service Co., Muskogee, Okla., acquired 25 yr. natural gas franchise. 2-28

Ky., Ashland—Dome Oil & Gas Co., capital \$50,000, incorporated; R. F. Graber, Louis Devries.

Louisiana—Empire Public Service Corp., Floyd W. Woodcock, Pres., 16th and Walnut Sts., Philadelphia, Pa., entered into contract to purchase approximately 75 miles of trunk gas lines and equal amount of mains and connecting lines in 17 north Louisiana towns and 2 south Arkansas towns, together with franchises from Moran Corp., Ricou-Brewster Bldg., Shreveport; towns include Strong and Junction City, Ark.; Belcher, Marion, Nabor-ton, Oil City, Gilliam, Plain Dealing, etc.

La., Baton Rouge—Standard Oil Co., reported, let contract to Engineering Research and Equipment Co., Los Angeles, Calif., for absorption and compression stills, cost \$600,000.

La., Bossier City—Louisiana Oil Refining Corp., M. J. Grogan, Shreveport, plans expending \$56,000 for improvements to refinery; install additional heat exchangers and modern fractionating equipment; construct 3 pumping stations in East Texas territory. 2-14

Md., Baltimore—Stockholders of Prudential Refining Co., 90 West St., New York, ratified sale of assets to Marland Oil Co., Ponca City, Okla., for 110,000 shares of latter's common stock; after preferred stock on Prudential is converted into common in ratio of 6 shares of common for each share of preferred, Prudential stockholders will receive 1 share of Marland for 2 shares of Prudential; Marland Oil Co. acquired plant of Prudential Oil Co. at Curtis Bay. 2-28

Miss., Columbus—Central Public Service Corp., 105 W. Adams St., Chicago, Ill., acquired gas plants of Mississippi Power Co., Gulfport, at Columbus, Meridian and Hattiesburg.

Missouri—Sinclair Oil Co., 45 Nassau St., New York, acquired business and properties of T. S. Cross Oil Co., 812 E. Page St., Springfield, including 7 bulk distributing stations in Ash Grove, Walnut Grove, Greenfield, Osceola, Lowry City, Golden City, and Weaubleau.

Mo., Fredericktown—George L. Dunbar, 7514 Buckingham Drive, St. Louis, negotiating for 20 year gas franchise; gas to be supplied by Mississippi River Fuel Co., 506 N. Fourth St., St. Louis, which company plans natural gas pipe line from Monroe, La., to St. Louis. 3-7

N. C., Elkin—Church Oil Co., J. R. Johnson, Pres., erect warehouse and plant for storage of oils and grease, storage tanks, brick casings. 3-7

N. C., Shelby—Carolina Engineering Co., Johnston Bldg., Charlotte, making survey for municipal gas plant. 3-7

Okla., Drumright—Hope Engineering Co., Mt. Vernon, Ohio, advise that pipeline construction from Drumright to Joliet, Ill., for Sinclair Pipe Line Co. is nearly completed.

Okla., Tahlequah—City voted to extend gas franchise of C. N. Haskell.

Tenn., Kingston—Pyle Brothers, Kingston, has contract for Texaco distributing station, including iron and frame warehouse, 24x80 ft.; garage 30x40 ft.; filling shed, 10x22 ft.; 2 storage tanks, 10x38 ft., capacity 21,000 gal. each.

Texas—United Gas Co. (Moody-Seagraves interest), Houston, acquired properties of Mission Drilling Co. of Texas, including 651 acres in Refugio field; will be operated as Mission Drilling Co. under Delaware charter.

Tex., Big Springs—Great West Gasoline Co., capital \$20,000, incorporated; H. G. Lee, R. G. Conover.

Tex., Brenham—Big Three Oil Co., capital \$16,200, incorporated; H. L. Reese, J. H. Baker.

Tex., Dallas—Home Gas Equipment Co., incorporated; Milton B. Levy, 2538 S. Ervay St.

Tex., Henrietta—O. K. Oil Corp., chartered; E. H. Reed, P. W. Henry.

Tex., Houston—Southern Oil Royalty Co., incorporated; Walter H. Waine, James L. Shepherd, Jr., 4111 Austin St.

Tex., Ingleside—Humble Oil and Refining Co., Houston, reported, acquired land at Ingleside, doubling present site of 750 acres; will build 30 additional storage tanks and lay foundations for 7 cracking units. 9-27

Tex., Jefferson—City granted gas franchise to W. H. Sedberry, Marshall, and Northeast Texas Gas Co.

Tex., Kennedy—Moody-Seagraves Interests, Esperson Bldg., Houston, has gas franchise.

Tex., Nixon—Lowe Oil Co., capital \$20,000, incorporated; A. C. Lowe, Fred Eaves.

Tex., Ranger—Superior Refining Co., capital \$50,000, incorporated; G. A. Clements, J. H. Howlett.

Tex., San Antonio—See Motor Cars, Garages, Filling Stations.

Tex., San Antonio—Grayburg Oil Co., Maverick Bldg., San Antonio, Silas M. Newton, Pres., 150 Broadway, New York, acquired 280 acres on Missouri Pacific and Southern R. R. tracks, South Antonio; erect refinery, later remove refinery from Roosevelt Ave.; will remodel number of filling stations, erect 2 super filling stations.

Va., Richmond—Prudential Oil Corp., 90 West St., New York, subsidiary of Marland Oil Co., Ponca City, Okla., reported, expend \$500,000 in improvements and enlargements of oil distributing plant, recently acquired from National Oil Co.; also acquired properties in Virginia and Maryland; will acquire and operate filling stations in Virginia.

W. Va., Meadowbrook—Hope Natural Gas Co., applied to Public Service Comm., Charleston, for permission to acquire from Consolidation Coal Co., low pressure gas distribution plant.

W. Va., Wheeling—Annex Oil and Gas Co., Fourteenth and Water Sts., capital \$100,000, incorporated; J. C. Williams, 708 East End Ave., Pittsburgh, Pa.; Alva Hendrick, Moundsville.

### Ice and Cold-Storage Plants

Ark., Amity—See Miscellaneous Enterprises.

Ark., Huntsville—Commonwealth Public Service Co., Harris Trust Bldg., Chicago, Ill., erect modern ice plant to supply city and surrounding towns in Madison County.

Fla., Avon Park—Florida Public Service, Orlando, erect 40-ton ice plant and loading platform for refrigerator cars; cost \$15,000; G. C. Hyde, Gen. Supt., 108 W. Concord St., Orlando.

Ga., Gainesville—C. B. Romberg, and associates, acquired site, erect 16-ton ice plant to cost \$30,000.

Ga., Savannah—South Atlantic Packing and Provision Co., subsidiary of Georgia Ice Co., Albert M. Dixon, Pres., acquired site on Louisville Road; erect 60-ton ice plant.

Ga., Savannah—Carolina-Georgia Service Co., Anderson, S. C., H. D. Baldwin, V. Pres. and Gen. Mgr., establishing 50-ton ice plant, Bull St.; placing orders for machinery.

Ga., St. Marys—W. E. Ponsell, and associates, Waycross, acquired site; erect 15-ton ice plant.

Ky., Corbin—C. P. Wood Co., 227 Race St., Cincinnati, Ohio, advises ice plant to be installed by them for Citizens Ice and Fuel Co., T. E. Mahan, Pres., Williamsburg, is 50-ton, primarily for car icing, although there will be surplus to take care of Corbin, Williamsburg, London, Barbersville and other small towns; machinery to be of vertical twin cylinder type direct connected to synchronous motors of Vilter Mfg. Co., Milwaukee, Wis., make; 3000-ton storage room, conveyors, etc. 3-7

Miss., Vicksburg—Vicksburg Ice Co., 1403 Levee St., plans erecting \$55,000 ice plant.

Mo., Crane—E. J. Jones, Terre Haute, Ind., erect cold storage plant to serve fruit growers and ice plant for icing railroad refrigerator cars.

Mo., St. Louis—Dry Ice Corp. of America, 50 E. 42nd St., New York, P. F. Lavedan, V. Pres., install dry ice plant in building to be erected by Liquid Carbonic Co.; install equipment to cost \$50,000; have capacity of 10 to 15 tons per day; to be in operation in about 5 months; F. H. Starr, 1813 Olive St., to be manager. See Miscellaneous Enterprises.

Tenn., Union City—J. C. Burdick, Jr., soon begin erecting 20-ton ice plant.

Tex., Corsicana—Kennemer Bros. let contract to J. E. Metcalfe & Son for 25-ton ice plant; cost \$32,000.

Tex., El Paso—Texas-Louisiana Power Co., Fort Worth Chub Bldg., Fort Worth, erect \$60,000 ice plant.

Tex., Fort Worth—Texas Ice & Refrigerating Co., Jones and Ninth Sts., expend \$11,000 for ice plant repairs.

Va., Harrisonburg—C. D. Wenger erect \$30,000 apple storage plant; 20,000 bbl. capacity; rein. conc.; C. H. Hinuant, Archt. and Engr.

Va., Richmond—Southeastern Ice Utilities Co., Portsmouth, reported, announced purchase of controlling stock of Merchants Cold Storage and Ice Mfg. Co.

### Iron and Steel Plants

Mo., Kansas City—California Columbian Steel Tank Co., Ltd., incorporated; A. A. Kramer, 420 N. River Bend.

Mo., Kansas City—Acme Pipe and Metal Co., Harry B. Strauss and Morton Brown, 1527 Walnut St., contemplating erecting steel fabricating plant, Tront and Salisbury St.

Tex., Harrisburg, Houston—Peden Iron and Steel Co. let contract to C. W. Ennis, 1401 Dowling Bldg., Houston, for \$20,500 addition to marine department building, Broadway.

### Land Development

Ala., Selma—Town and Country Club, J. Volz, Jr., Pres., will enlarge golf course.

Fla., Clearwater—Clearwater Beach Park, Inc., chartered; L. T. Gregory, Jr., George Moore.

Fla., Coral Gables, Miami—Coral Gables, Inc., chartered; R. P. Terry, Biscayne Bank Bldg.

Fla., Daytona Beach—Bethune Point Co., incorporated; C. M. Greiner, 1400 S. Penn Drive.

Fla., Fort Myers—Newton-Whitcomb Properties, Inc., capital \$50,000, chartered; H. D. Whitcomb, R. D. Newton.

Fla., Jacksonville—Garret Properties, Inc., John A. Gardner, Pres., developing Dremar, subdivision, 20 acres and Edgewood, 30 acre subdivision near city limits; wants to correspond with general contractor who will build; also general financing company loaning money for construction.

Fla., Miami—Victor J. Magnant, Inc., chartered; H. F. Ward, 1311 Alhambra Circle.

Fla., Miami—Biscayne Florida Properties, Inc., chartered; C. N. Grimshaw, 766 N. W. 13th Ave.

Fla., Miami—William J. Bennett, Inc., chartered; W. J. Bennett, 776 N. W. Third St.

Fla., Miami Beach—Espanola Corp., incorporated R. E. Jackson, R. A. Taylor, 412 Espanola Way.

Fla., Mount Dora—Washington Irving Park, Inc., chartered; Brantley and Gilbert, Burcham.

Fla., Monticello—Finlayson Co., incorporated; W. H. Finlayson, D. R. Joy.

Fla., St. Petersburg—Homans Realty Co., incorporated; C. F. Cummings, 7711 Fourth Ave., S.

Ga., Atlanta—W. D. Beatie, 101 Marietta Bldg.; Organization develop subdivision on Sisem Ave.

Ga., Macon—E. Winship Corp., capital \$100,000, incorporated; Emory Winship, Georgia Casualty Bldg.

Ga., Tate—Tate Mountain Estates, 404 Candler Bldg., Atlanta, Col. Sam Tate, Pres., develop 8000 acres for mountain resort, including hotel, golf course, lake, clubs, private residences; will increase capital stock from 10,000 to 20,000 shares; will expend \$1,000,000 in improvements; work to begin at once; surface of lake will be 2700 ft. above sea level; 18-hole golf course; landscaping of estate in charge of E. Burton Cooke; plans for lake dam and water system being prepared by B. M. Hall and Son. 3-7

Ky., Fulton—Fulton Realty Co., incorporated; J. E. Fall, N. G. Cooke.

La., New Orleans—Rogra Realty Co., Inc., capital \$50,000, incorporated; Dewey C. Keller, 4605 Washington Ave.

La., New Orleans—Ansel Realty Co., Inc., capital \$50,000, incorporated; Anthony M. Pumilia, 422 Balter Bldg.

La., New Orleans—Milward Co., Inc., capital \$20,000, incorporated; J. E. Landry, 2336 Milan St.

Md., Baltimore—Green Gables, Inc., Hearst Tower Bldg., incorporated; Morton H. Rosen.

Md., Baltimore—O. E. Wise & Co., Inc., 333 St. Paul St., incorporated; Robt. E. Lee Young.

Md., Baltimore—Astor Realty Co., 16 Park Ave., incorporated; Walter A. McClean.

Md., Baltimore—Alpha Realty Co., Inc., 1700 E. Lafayette Ave., incorporated; Irving Griebler.



Md., Baltimore—Real Estate Co. of Baltimore, incorporated; Eldridge Hood Young, Equitable Bldg.

Md., Still Pond—Kent Farms Co., Inc., chartered; Hannibal E. Potter, Dorothy Berger.

Miss., Jackson—Solvent Investment Co., R. H. Green, Pres., 605 S. Gallatin St., developing Terre Verde Spanish subdivision on Raymond St.; Grey Artesian Well Co., Pensacola, Fla., has contract for water well; B. E. Walker, for laying water pipe; Central Foundry and Machine Co., Birmingham, for furnishing pipe; Pittsburgh-Des Moines Steel Co., Atlanta, for tank and tower.

Mo., Steele—Snyder-Dorsey Co., Inc., chartered; John W. Snyder, Frances A. Dorsey.

Mo., Springfield—Mozark Beach Corp., incorporated; J. K. Livingston, Kennedy Bldg., Tulsa, Okla.; Grover C. James, Joplin.

Mo., St. Louis—Babler Farms Co., capital \$125,000, incorporated; Edmund A. Babler, 4525 Lindell St.

N. C., Durham—James M. White, Inc., capital \$100,000, incorporated; J. M. White, 1016 Monmouth Ave.

S. C., Greenville—Oakvale Land Co., incorporated; C. C. Good, 715 Augusta St.

Tex., Corpus Christi—The Trennan Cotton Exch. Bldg., Fort Worth, plans additional subdivision west of Meadow Park.

Tex., Corpus Christi—W. Sanders acquired 491 acres in Nueces County.

Tex., Houston—Main and Rusk Realty Co., incorporated; F. J. Heyne, Bankers Mortgage Bldg.

Tex., Kerrville—O. R. Seagraves, Esperson Bldg., Houston, acquired 7141 acres; plan deerproof fence around portion of tract; build several dams to create lakes, etc.

Tex., Temple—City, Lem Burr, Mayor, develop 8 acres on North Main St. for Park and playground.

Tex., Yoakum—Claude Hoover, Sr., and L. H. Geiger develop 5 acres for tourist camp, erect residence, tourist cottages, filling station, etc.

Va., Clarendon—Cunston Manor, Inc., chartered; Walter L. Bean, Bond Bldg., Washington, D. C.

Va., Norfolk—Southport Land Corp., capital \$15,000, incorporated; O. L. Shackelford.

Va., Richmond—Hillerest, Inc., chartered; M. C. Patterson, Grace American Bldg.

W. Va., Charleston—Ocala Farms, Inc., chartered; Lon H. Kelly, Kanawha Bk. Bldg.

W. Va., Huntington—McNabb Realty Co., incorporated; J. H. Pirrung, 633 Sixth Ave.

W. Va., Huntington—Guyan Holding Co., incorporated; S. S. McNeer, R. & P. Bldg.

### Lumber Enterprises

Ark., Russellville—Burnett Wyss Lumber Co., with plants at Waldon, Ark., and Clayton and Dunbar, Okla., acquired Pierce Young Lumber Co. plant; will operate large planing and finishing mill and wholesale lumber business; J. L. Burnett, to be plant manager.

Florida—E. T. Roux, Plant City, and E. G. Armstrong, Keyville, acquired 28,000 acres of virgin timberland in Charlotte County; soon move sawmill now located at Keyville into new tract.

Fla., Cuthbert—Burgin Lumber Co. erect planing mill near Villa Nova St.

Fla., Palatka—Wilson Cypress Co., F. H. Wilson, Gen. Mgr., let contract to Prescott Co., Menominee, Mich., for installing machinery in lumber plant, to give plant approx. 3,000,000 ft. capacity per month; let contract to Allis-Chalmers Co., Milwaukee, Wis., for electrical work, calling for large turbine capable of generating 1,250 k.w., with auxiliary turbine for emergency purposes; construction by company's forces. 3-7

Ga., Glennville—W. T. Canuet rebuild mill recently destroyed in boiler explosion.

La., Houma—People's Lumber Co., Inc., capital \$25,000, chartered; Claude P. Bordeaux, Box 486.

Mo., New Madrid—Edwards Land and Timber Co., incorporated; E. F. Sharp, W. I. Edwards.

N. C., Hendersonville—Southern Land and Lumber Co., capital \$50,000, incorporated; Mrs. J. H. Rosenberg, Fifth Ave., N.

Tex., Jourdanton—Alamo Lumber Co. acquired yards of Griffity Lumber Co., located at Jourdanton, Potett, Charlotte, Pleasanton, Goliad, Floresville and Del Rio; Chas. Mared, Mgr. local yard.

### Mining

La., New Orleans—Choctaw Clay Corp., 608 Marquette Bldg., erect complete plant for processing fullers earth for market at mines. See Want Section—Machinery and Supplies.

Md., Cumberland—Shaw Big Vein Coal Co., capital \$100,000, incorporated; William Jenkins, Robert T. Shaw.

Md., Cumberland—Burtner Coal Co., capital \$50,000, incorporated; Clair P. Burtner, Charles C. Renshaw.

Mo., Joplin—Triangle Mining Co., capital \$50,000, incorporated; J. S. Oglsby, Webb City, Kan.; James D. Morgan, Duenwig, Mo.

Tex., Sierra Blanca—Victoria Mines Consolidated, incorporated; P. A. Watson, Ray V. Davis.

### Miscellaneous Construction

Arkansas—U. S. Engr. Office, 1006 McCall Bldg., Memphis, Tenn., plans receiving bids about May 15 for levees designated as follows by name, location, kind of work, estimated net yardage: Lower St. Francis Levee Dist., at Barfield near Blytheville, enlargement of riverside and borrow, 365,000; Lower St. Francis Levee Dist., above and below Wilson, riverside enlargement of existing levee with riverside borrow, 3,000,000; levee front at Helena, enlargement of existing levee and landside and riverside enlargement, 1,000,000, and for riverside enlargement of existing levee below to south bank of Long Lake, 1,000,000.

Kentucky—U. S. Engr. Office, 1006 McCall Bldg., Memphis, Tenn., plans relieving bids about May 15 for enlargement of landside of present levee in Reelfoot Levee Dist., beginning at Hickman to junction with City Levee, approximately 615,000 cu. yds., and for construction of new levee near Kentucky-Tennessee State line, approximately 2,000,000 cu. yds.

Ky., Louisville—U. S. Engr. Office, P. O. Box 72, receives bids Mar. 26 for constructing auxiliary lock at lock and dam No. 41, Ohio River. See Want Section—Bids Asked.

La., New Orleans—Bd. of Comms. of Port of New Orleans authorized U. S. Treasury Dept. to construct quarantine wharf, on west bank of Mississippi; 28x55½ ft.; to have gangway and bridge leading back about 250 ft. from wharf to top of levee with concrete ramp and steps from public highway to gangway.

La., New Orleans—Bd. of Comms. of New Orleans Port let contract to O'Brien Construction Co., Queen and Crescent Bldg., for woodwork in rear extension of St. Andrew St. wharf, at \$14,701.50. 2-21

Md., Silver Springs—Silver Springs Amusement Corp., Frank Hewitt, erect \$75,000 swimming pool and bath house, Colesville Pike, near Argyle County Club; rein. conc.; V. D. Cockey, Engr.

Mississippi—U. S. Engr. Office, 1006 McCall Bldg., Memphis, Tenn., plans receiving bids about May 15 for levees designated as follows by name, location, kind of work, estimated net yardage: Upper Yazoo Levee Dist., below Lake View, Miss., landside and riverside enlargement and borrow, 2,100,000; Upper Yazoo Levee Dist., below Commerce, riverside enlargement and borrow, 500,000; Upper Yazoo Levee Dist., south from Burk's Spur Levee, enlargement of existing levee, riverside and landside enlargement, 1,425,000.

Missouri—U. S. Engr. Office, 1006 McCall Bldg., Memphis, Tenn., plans receiving bids about May 15 for levees designated as follows by name, location, kind of work, estimated net yardage: Little River Drainage Dist. between Allenburg and Nash, construction of new loop levee, 1,000,000; Cairo City levee, Cairo City, riverside and landside enlargement, 150,000; St. John's Bayou Levee, New Madrid, enlarging existing levee and riverside enlargement and borrow, 960,000; Lower St. Francis Levee Dist., above Gayoso, near Caruthersville or Hayti, enlargement of old levee and riverside enlargement and borrow, 1,400,000.

Miss., Belzoni—Fill—See Roads, Streets, Paving.

Missouri—U. S. Engr. Office, Postal Telegraph Bldg., Kansas City, let contract to Kansas City Bridge Co., 510 Orear-Leslie Bldg., Kansas City, for 6,900 lin. ft. standard pile clump dikes, and 13,500 lin. ft. standard revetment in Missouri River at Moberly Bend, and 4,200 lin. ft. standard pile clump dikes, and 7,800 lin. ft. standard revetment at Baltimore Bend. 2-28

Missouri—U. S. Engr. Office, Postal Telegraph Bldg., Kansas City, let contract to U. G. I. Contracting Co., 112 N. Broad St., Philadelphia, Pa., for 4,800 lin. ft. standard pile clump dikes at Little Blue Bend; 3,700 lin. ft. standard pile clump dikes, and 4,000 lin. ft. standard revetment at Sibley Bend in Missouri River. 2-28

Missouri—U. S. Engr. Office, 1006 McCall Bldg., Memphis, Tenn., plans receiving bids about June 1 for construction of new levee beginning at Birds Point, extending toward New Madrid in Floodway Levee, about 8,000,000 cu. yd.

Okla., Ardmore—F. H. Reed, Neosho, Mo., construct \$30,000 swimming pool; day labor; private plans.

Okla., Ponca City—Farmers Trading Co., Morrison, erect grain elevator.

Tex., Dallas—City Comms. plan \$100,000 bond issue for incinerator.

Tex., Liberty—Chambers County Chamber of Commerce sponsoring movement to erect memorial on site of Anahuac fort; John Encison, Pittsburgh, Pa., donated 5 acres.

Tex., Marfa—R. Norman and A. Grubbs, have preliminary plans for \$25,000 conc. swimming pool.

Tex., Port Arthur—Jefferson County, reported, plans raising \$2,000,000 toward constructing \$3,000,000 sea wall to protect city from possible overflow in time of tropical storms.

Tex., San Antonio—Bert De Baum, Sculptor, 112 E. Pecan St., announced plans for \$25,000 bronze statue to late Mayor John W. Tobin; includes 4 bronze plaques; ship to Italy to be cast in bronze.

Tex., San Antonio—City, C. M. Chambers, Mayor, has low bid from McCrary Co., Dallas, for Great Bend Cutoff, San Antonio River between Commerce St. and Detectives' Bldg., at \$153,265.87. 2-28

Tex., Texas City—I. Predecki, County Auditor, Galveston, receives bids until April 8 for building earthen levee protection, together with necessary drainage and drainage structures. See Want Section—Bids Asked.

### Miscellaneous Enterprises

Ala., Birmingham—Theodore Swann, Pres., Brown-Marx Bldg., announced incorporation of Swann Corp. as parent company of subsidiary enterprises, including Federal Phosphorus Co.; Southern Manganese Corp.; Federal Carbide Co.; Federal Abrasives Co.; Provident Chemical Works; Jax Plant Food Co., and Federal Power Co., controlling Hiwassee Power Co. and Nolichucky Power Co.; corporation also owns Provident Chemical Works, St. Louis, Mo., manufacturers of H. T. Phosphate used in making high grade food products; headquarters of company at Birmingham, with main plant and electric furnaces at Anniston.

Ala., Carbon Hill—Rex Reed, Pres., Tupelo Garment Mfg. Co., Tupelo, Miss., promoting establishment of garment manufacturing company, capital \$70,000; erect \$75,000 plant; \$20,000 in stock subscribed; install modern machinery; employ approx. 120.

Ala., Gadsden—A. K. Adams & Co., 542 Plum St., N. W., Atlanta, Ga., advises following have sub-contracts for tire manufacturing plant for Goodyear Tire & Rubber Co., Akron, Ohio: Creosoted lumber, Southern Wood Preserving Co., East Point; rolling steel doors, Kinnear Mfg. Co., 101 Marietta St.; rein. steel, Truscon Steel Co., Wynne-Claughton Bldg.; glass and glazing, Applewhite & Lawler Co., Citizens & Southern Bldg., all Atlanta, Ga.; cut stone, Russellville Cut Stone Co., Russellville, Ala.; steel sash, Detroit Steel Products Co., 2250 E. Grand Blvd.; sash erection, Fenestra Construction Co., Grand Blvd., both Detroit, Mich.; fire doors, Richmond Fire Proof Door Co., Richmond, Ind. 2-21

Ala., Huntsville—Coca-Cola Bottling Works, J. F. Chambers, erect bottling plant.

Ala., Huntsville—Chamber of Commerce interested in establishing tire and rubber manufacturing plant.

Ala., Montgomery—E. S. Collins, 1600 S. 24th St., Birmingham, acquired Capitol City Baking Co., 108 Bibb St., operated by Norman Drum and E. E. Wedding; soon begin enlarging plant.

Ark., Amity—Company headed by T. H. Whitted, plans erecting modern creamery and 5-ton ice plant.

Ark., Fort Smith—Banfield Bros. Packing Co., Tulsa, Okla., acquired municipally owned abattoir; immediately erect \$15,000 reduction plant to operate in connection with packing plant.

D. C., Washington—Mayflower Art Co., capital \$50,000, incorporated; M. E. Scarborough, Natl. Press Bldg.

Fla., Jacksonville—Pine Products Refineries, Inc., capital \$160,000, chartered; H. C. Reynolds, J. O. Rubin.

Fla., St. Petersburg—Southern Syrup Co., capital \$65,000, incorporated; P. W. Davis, First Nat'l Bank Bldg.

Fla., Tampa—Tampa Celo Bottling Co., Inc., chartered; C. E. Owning, C. W. Fairbanks, 2104 Hills Ave.

Va., Hopewell—Atmospheric Nitrogen Corp., Syracuse, N. Y., reported, soon begin work on second unit costing \$35,000,000, of plant to cost \$125,000,000, first unit completed last year. 4-5-28

Fla., Tampa—Prest-O-Lite Co., Inc., 30 E. 42nd St., New York City, immediately erect large acetylene producing plant, between 13th and 32nd St., at intersection of Seaboard Air Line and Tampa Northern, on frontage of 738 ft.; begin production Sept. 1.

Ga., Americus—Prescott Allen acquired Americus Times-Recorder, Lovelace Eve, Editor and Publisher.

Ga., Atlanta—B. F. Goodrich Rubber Co., James D. Tew, Pres., Akron, Ohio, acquired 25-acre tract, 14th and Hemphill St., soon begin constructing tire manufacturing plant, with capacity of 5,000 tires and 5,000 tubes a day; to be completed by end of present year; rein. conc. and struct. steel, brick walls, tar and gravel roof, sprinkler systems, conc. and wood floors; plans by company's engineering department, Akron; Robert & Co., Supervising Engr., Bona Allen Bldg., Atlanta.

Ga., Macon—Izzie Bashinske, Dublin, acquired Pyntree Paper Co.

Ky., Ashland—Mayo Co., capital \$250,000, incorporated; C. C. Mayo, Mark W. Selby; garage equipment and gas engines.

Ky., Campbellsville—Atlas Life and Accident Insurance Co., increasing capital stock, \$100,000 to \$200,000.

Ky., Harrodsburg—Harrodsburg Ice and Produce Co., increasing capital stock, \$36,000 to \$150,000.

Ky., Louisville—Tafel Electric Co., 329 W. Main St., increasing capital stock, \$175,000 to \$350,000.

Ky., Owensboro—Ken-Rad Tube and Lamp Corp. let contract to A. J. Hoffman Construction Co., Evansville, for addition to accommodate radio tube facilities to lamp plant, E. Ninth St.; Owensboro Clay Products Co. has sub-contract for brick; Alfred E. Neucks, Archt., Evansville. 3-14

La., Bastrop—Three Rivers Glass Co., Charles R. Tips, Pres., Three Rivers, Tex., acquired Bastrop Glass Co.'s plant.

La., Collinston—Mayor Guy Boyd and associates, business men and farmers organizing company to operate creamery. See Want Section—Machinery and Supplies.

La., New Orleans—L. Martin Co., subsidiary of Columbian Carbon Co., 45 E. 42nd St., New York City, plans erecting ink manufacturing plant.

La., New Orleans—Mente & Co., Inc., I. T. Rhea, Pres., bags and bagging manufactures, contemplating erecting plant.

La., New Orleans—City install traffic signals and illumination system, as part of beautification of Canal St.

La., New Orleans—Flintkote Co. of New Orleans, manufacturers of asphalt shingles and prepared roofings, let contract to Lionel P. Favret, Louisiana Bldg., for \$100,000 boiler plant, to consist of two 400-h. p., 350-lb. pressure Edgemoor boilers.

La., Opelousas—Garbo Bros., let contract to Thurston McKinney for building, Bellevue St.; 2-story, brick; Garbo Cleaning and Dyeing plant to occupy first floor; second floor to be used for offices.

Md., Baltimore—Smallwood Cornice Works, Inc., 1821 Smallwood St., chartered; Louis Farber; construct and erect cornices and spouting.

Md., Baltimore—Horn Ice Cream Co., 446 Aisquith St., reorganized to take over properties of Southern Dairies; Henry W. Hofferbert, Eugene Frederick.

Md., Bethesda, Washington, D. C.—American Ice Co., 41 E. 42nd St., New York City, acquired Suburban Ice Co., Bethesda, and Home Ice Co., Washington, D. C.

Miss., Jackson—City voted \$875,000 bonds, \$50,000 for fire alarm system.

Mo., Joplin—Republic Life Insurance Co., capital \$100,000, incorporated; J. W. Busard, Denver, Col.; W. L. Husband, Ava, Ill.

Mo., Kansas City—Frank G. Hill Clothing Co., capital \$50,000, incorporated; Forrest A. Talley, 1220 Walnut St.

Mo., Kansas City—Contracting, Construction and Pile Driving—E. A. Whitney & Son, Inc., chartered; E. A. Whitney, Sioux City, Ia.; A. E. Whitney, 5624 Cherry St., Kansas City.

Mo., Maryville—Forum Publishing Co. of Maryville, capital \$50,000, incorporated; H. W. Herrick, Winfield, Kan.; J. R. Herrick, Maryville.

Mo., Mexico—Mid-West Bank Supply Co., Inc., chartered; William W. Jackman, Edward H. Blittshaw; bank and office supplies.

Mo., North Kansas City, Kansas City—Stewart Sand Co., City Bank Bldg., erect \$40,000 storage and distributing plant; 65x80 ft., install handling, loading and other equipment.

Mo., Springfield—Plumbing and Heating—Schuerer-Boyd Co., 317 E. Commercial St.,

capital \$10,000, incorporated; J. H. Boyd, 516 E. Division St.

Mo., St. Louis—St. Louis Terrazzo & Marble Co., Inc., capital \$30,000, chartered; H. J. Gludicy, 3800 Eller St., constructors in terrazzo, marble, tile, mosaic and granitoid.

Mo., St. Louis—Heinold Electric Co., capital \$15,000, incorporated; August Heinold, 4651 Allemana St.

Mo., St. Louis—Liquid Carbonic Co., F. H. Starr, Mgr., 1813 Olive St., plans expending \$300,000 for enlarging carbonic gas plant, 3400 Bernard St.; erect building; 2-story and basement, 150 x 100 ft.; when new plant is completed present building to be replaced by new structure, 50 x 100 ft.; install new equipment to quadruple output.

Mo., St. Louis—Sel-Mor Garment Co., H. C. Seldon, Pres., 832 Washington Ave., rayon underwear manufacturers, increased capital stock \$20,000 to \$100,000; plans doubling floor space; install additional equipment to cost \$10,000; employ 65.

Mo., St. Louis—Excelsior-Leader Laundry Co. let contract to Fruin-Colnon Construction Co., Merchants Laclede Bldg., for \$500,000 laundry plant addition, Texas Ave.; 4-story, brick; Leonhard Haeger, Archts., 4844 Utah St.

Mo., St. Louis—Asphalt Application Co., capital \$50,000, incorporated; J. V. Belt, Ferguson; Louis J. Ringe, St. Charles.

Mo., St. Louis—Paramount Shoe Mfg. Co. let contract to N. M. Kaplan, American Tr. Bldg., for \$55,000 plant, 4164 Chippewa St.; 3-story, 50x171 ft., conc. roof; B. Shapiro, Archt., American Tr. Bldg.

N. C., Dallas—Lay Mfg. Co., capital \$40,000, incorporated; J. G. Carrier, M. M. Lay; manufacture and sell brushes, brooms, etc.

N. C., Jamestown—High Point Co-operative Wholesale Milk Producers' Association, Inc., chartered; John S. Holton, L. O. Willard.

N. C., Hickory—Consolidated Insurance and Realty Co., capital \$50,000, incorporated; L. F. Abernethy, W. R. Weaver.

N. C., Reidsville—Fiske-Carter Construction Co., Masonic Temple Bldg., Greenville, S. C., advises regarding 10 tobacco storage and aging sheds they are building for American Tobacco Co., Chas. A. Penn, V-Pres., 111 Fifth Ave., New York City, have floor dimension, 150x122 ft. 8 in., 5 with conc. floors on earth, 5 with cinder floors on earth, wood columns, beams and side wall framing covered with galv. iron siding, 5-ply tar and gravel roof; sheds to be sprinkled. 3-14

N. C., Sanford—Gurley Plumbing and Heating Co., capital \$250,000, incorporated; W. H. Gurley.

Okla., Durant—Durant Ice Cream and Creamery Co., H. E. Hewitt, Mgr., erect \$10,000 addition to plant.

Okla., Tulsa—Steinburg's Drug Stores, Inc., issuing 16,000 shares \$3.50 cumulative convertible preference stock through George H. Burr & Co., Republic Bk. Bldg., Dallas, Tex.; company operates chain of 26 drug stores in Oklahoma with headquarters in Tulsa.

Okla., Tulsa—Elinore Reed Garment Co., Inc., 523 E. Third St., plans erecting plant; brick.

S. C., Columbia—William LaVarre and Harold Hall, Augusta, Ga., owners of Augusta Chronicle, acquired Columbia Record, evening and Sunday newspaper; Fitz Hugh McMaster, Columbia, to be editor.

S. C., Greenwood—Greenwood Packing Plant, Inc., W. A. Barnett, enlarge plant to give total of 2600 sq. ft.

Tennessee—Tennessee Copper and Chemical Corp., 61 Broadway, New York City, issuing \$3,358,700 15-year 6% convertible debenture gold bonds, Series B, through Adolph Lewishohn & Sons; J. S. Bache & Co.; Kean, Taylor & Co., and Sutro Bros. & Co., all New York; company through a subsidiary owns and operates largest plant in United States for producing sulphuric acid; copper mines, smelter and acid plants located at Copperhill, Tenn.; fertilizer plants at East Point (Atlanta), Ga.; Lockland (Cincinnati), Ohio; New Albany, Indiana; Montgomery, Ala., and Tampa, Fla.

Tenn., Chattanooga—Tennessee Products Co., Frederick Leake, Pres., American Tr. Bldg., Nashville, authorized expansion program at gas and by-product coke plant for increased production of ammonia, benzol oils, chemical specialties, tars, etc.; consists of new units and installation of complete recovery equipment; cost \$450,000.

Tenn., Chattanooga—Porcelain Tile Co., George D. Haines, Pres., 1736 Builders Bldg., La Salle and Walker Dr., Chicago, Ill., advises not planning to erect plant; recently noted, considering establishing enameling plant. 3-7

Tenn., Memphis—Rogers Ink and Specialty Co., capital \$25,000, incorporated; C. A. Turley, 391 Alexander St.

Tenn., Memphis—Edward P. Vlegh, 12 N. McLeann St., erect bakery, Union Ave., east of Belvedere St.; 1-story and basement, conc. and tile floors, struct. and misc. steel and iron, comp., built-up roof.

Tenn., Nashville—Henry Neuhoft, Pres., Neuhoft Packing Co., 1308 Adams St., reported, announced merger with Power Packing Co., involving approx. \$3,000,000; White Provision Co., Atlanta, Ga., involved.

Tenn., Union City—Reynolds Packing Co., increasing capital stock to \$150,000; plans immediately beginning enlarging plant to double capacity.

Tex., Beaumont—City, J. W. Anderson, Mgr., proposes \$2,985,800 bond issue in spring; \$97,750 for fire alarm equipment, \$5100 for fire department shop, \$33,300 for motor equipment, \$35,000 for traffic equipment, tool-proof cells, etc. See Financial News.

Tex., Dallas—Gulf Insurance Co., Insurance Bldg., plans increasing capital stock, \$1,100,000 to \$2,200,000.

Tex., Midland—Midland Reporter and Midland Daily Telegram merged; Midland Publishing Co. organized with T. Paul Barron Pres.

Tex., San Angelo—Concho Egg and Poultry Co., Robert A. Kimberling, Pres. and Mgr., plans increasing capital stock to \$75,000; erect warehouses and cold storage plants; plans call for 16,800 sq. ft. floor space.

Va., Elkton—Control Chemical Co. incorporated; W. T. Herring.

Va., Gore—Eastern Silica and Chemical Co., John F. Penrose, Pres., Winchester, immediately install additional unit at silica plant to virtually double capacity.

Va., Richmond—Continental Tobacco Co., 511 Fifth Ave., New York, move machinery for manufacturing "Marlboro" and "English Ovals" cigarettes from Philadelphia, Pa., to plant, 20th and Cary St., April 1; employ 125 to 150 additional tobacco workers.

Va., Richmond—American Tobacco Co., Charles A. Penn, V-Pres., 111 Fifth Ave., New York City, has plans under way for increasing production of cigarettes at plant, 26th and Cary St.; shortly install new machinery.

Va., South Boston—Wilson, Bowen, Halley and Adams Warehouse Corp., capital \$150,000, incorporated; James H. Wilson, J. W. Adams; loose leaf tobacco sales auction warehouse.

Va., Staunton—Staunton Creamery, Inc., E. W. Holsinger, Pres., increasing capital, \$25,000 to \$65,000.

West Virginia—Bd. of Directors of Union Carbide & Carbon Corp., 30 E. Forty-second St., New York, Jesse J. Ricks, Pres., recommended to stockholders increase of capital stock from 3,000,000 shares without par value to 12,000,000 shares also without par value; will vote on April 16 on increase.

W. Va., Northfork—Rock Mineral Springs Co., capital \$50,000, incorporated; J. J. Hudleston, S. G. Wygal, Algoma.

### Motor Bus Lines and Terminals

Ala., Birmingham—Capital Coaches, Inc., H. E. Bissell, Pres., 2112 Fifth Ave., N., let contract to W. H. Horton for garage to accommodate Alabama Bus Co., Capital Coaches, Blue Goose and Old South Coach Lines. 3-14

Ala., Birmingham—T. S. Darnell and Frank Horton, 2700 N. Seventh Ave., let contract to W. A. Horton & Co., 8800 S. Fourth Ave., for bus terminal, N. Eighth Ave., between 27th and 28th St.; brick, steel, 1-story, comp. roof, conc. floors.

Md., Baltimore—Lord Baltimore Cab Co., 130 S. Broadway, incorporated; John J. Joseph Schmidt, Harry Phillip Gross.

Md., Baltimore—George H. Ving, 411 S. 25th St., applied to Public Service Comm. for permission to operate bus line, Third St. and Foster Ave. to St. Paul and Lexington St.

West Virginia—Monogahela Transport Co., Fairmont, authorized by State Road Comm., to operate bus line between Millersville, Kingspoint and Bentons Ferry, Marion County.

W. Va., Beckley—Blue and Gray Transit Co., Charleston, authorized by State Road Comm. to operate between here and Thurmond.

W. Va., Gassaway—West Virginia Transportation Co., Clarksburg, authorized by



State Road Comn. to operate bus line between here and Flatwoods.

W. Va., New Martinsville—Charles S. Smith, authorized by State Road Comn. to operate bus line between here and Maud.

### Motor Cars, Garages, Filling Stations

Ala., Birmingham—Redmont Tire Co., 215 S. 21st St., let contract to O. W. Baxter, 1423 N. 24th St., for addition to filling station; 1-story, 18x34; Chas. H. McCauley, Archt., 709 Jackson Bldg.

Fla., Jacksonville—Goodrich Tire and Rubber Co., Akron, Ohio, let contract to Neal P. Evans, Adair Bldg., for Select Tire Service Station, Adams and Lee St. 3-7

Fla., Sanford—Sanford Auto Sales Co., incorporated; W. Spencer, Jr., Velma Ship.

Ga., Atlanta—Grant Harris Motor Co., Hugh Richardson, has low bid from J. S. McCauley Co., Bona Allen Bldg., on revised plans for motor building, W. Peachtree and Fifth St.; contract to be awarded in few days; Pringle & Smith, Archts., Norris Bldg. 2-7

Ga., Augusta—Peoples Oil Co., Georgia Ave., reported, let contract to Sibert & Robinson, 126 Eighth St., for \$10,000 filling station, Broad and 12th Sts.; brick, stucco; contain office, accessory room, battery room and wash rack.

La., Shreveport—H. B. Barrett, Commercial Bank Bldg., erect \$10,000 filling station, Centenary Blvd. and Wilkerson St.; brick, stucco, conc. floors, stucco trim; plans complete; Henry E. Schwartz, Archt., Slattery Bldg.

La., Zachary—Blair Chevrolet, Inc., capital \$10,000, chartered; Hugh Blair, Zachary; D. E. McInnis, Jr., Jefferson Highway, Baton Rouge.

Mo., Kansas City—Wheel & Rim Service Inc., capital \$100,000, chartered; Raymond G. Barnett, 1118 Scarritt Bldg., Kansas City.

Mo., Kansas City—Marmon Motors, Inc., Sydney L. Altschuler, Pres., 1910 McGee St., increasing capital, \$50,000 to \$100,000.

Mo., St. Louis—Langforth Realty Co. erecting \$115,000 automobile service, repair and garage building, 23d and Olive St.; 3-story, 70x175 ft.

Mo., Wentzville—Wentzville Motor Co., incorporated; Selma Ruhd, Wentzville; Vance L. Rinze, St. Charles.

N. C., Greenville—Pitt Hudson Co., Inc., chartered; E. D. Barnes, W. S. Brown.

N. C., Kinston—Bowers Motor and Tire Co., Inc., capital \$25,000, chartered; W. J. Bowers, Thomas J. White, Jr.

N. C., Winston-Salem—C. T. Leinbach let contract to R. K. Stewart & Son, 154 S. Main St., for \$75,000 garage and show room; 2-story and basement, 200x60 ft., rein. conc., frame, brick, stone trim; Northup & O'Brien, Archt., Starbuck Bldg.

Okla., Wewoka—E. H. Hart erect sales garage; brick, conc., 1-story; J. D. Mathews, Archt., Magnolia Bldg., Oklahoma City.

Tenn., Athens—Tom Sherman erect garage on site of Parkinson House.

Tenn., Knoxville—Gulf Refining Co. erect \$10,000 filling station.

Tex., Alice—Holmgreen Bros., Chevrolet Agency, erect automobile building, Main and S. Adams St.; 75x100 ft.

Tex., Austin—R. W. Shipp, 803 Scarbrough Bldg., erect \$18,000 drive-in tire and filling station, 10th and Lavaca St.; 2-story, brick, stucco; includes offices, sales rooms, supply rooms, storage rooms, rest rooms, conc. floors and driveways, cast stone trim, comp. roof, tile decoration.

Tex., Beaumont—Andrus Motor Co., John A. Crawford, V.-Present., 901 Pearl St., erect automobile building, Calder and Forrest St.; building and site cost \$75,000.

Tex., Brownwood—Abney & Bohannon let contract to Suggs & Dunlap, 1082 N. First St., Abilene, for garage, at \$36,987; 2-story.

Tex., Clarksville—Ussery Motor Co., incorporated; M. M. Petty, Paul W. Ussery.

Tex., El Paso—Grayburg Oil Co., Maverick Bldg., San Antonio, erect filling station; brick, tile, rein. conc.

Tex., Laredo—Grayburg Oil Co., Maverick Bldg., San Antonio, erect filling station; brick, tile, rein. conc.

Tex., San Antonio—Grayburg Oil Co., Maverick Bldg., S. M. Newton, Pres., merged with Indiana Oil and Gas Corp., 150 Broadway, New York; negotiating for large group of bulk and wholesale stations throughout Southwest and coastal sections of state; re-

modeling all of company's 21 filling stations in city.

Tex., Turkey—F. A. and J. A. Johnson let contract to Clifford Hedrick, for \$12,000 garage; 40x130 ft.; work to begin immediately; to be leased to W. A. Marshall, Whippet dealer.

Va., Fredericksburg—Central Service and filling Station, Inc., chartered; K. P. Onderdonk.

Va., Richmond—See Gas and Oil Enterprises.

### Railways

Mo., St. Louis—Missouri Pacific R. R. Co., L. W. Baldwin, Pres., reported, soon issue \$46,392,000 20-year 5½% convertible bonds, Series A, subject to approval of Interstate Commerce Comn.

Tenn., Nashville—Nashville, Chattanooga & St. Louis Ry., J. B. Hill, Pres., reported, let contract to Pullman Car & Mfg. Corp., Chicago, Ill., for 400 undersills, steel construction.

Texas—Gulf, Colorado and Santa Fe Ry. Co., E. Merritt, Ch. Engr., Galveston, soon let contract for constructing branch rail line to tap new sulphur fields near Boling, Wharton County; obtaining rights-of-way and negotiating with contractors. 1-3

Tex., Brundage—San Antonio, Uvalde & Gulf R. R. Co., C. S. Kirkpatrick, Ch. Engr., Houston, applied to Interstate Commerce Comn., Washington, for permission to construct extension of 4.7 mi. from here.

Tex., Dallas—Texas and Pacific Ry. Co., J. L. Lancaster, Pres., reported, let contract to Pullman Car and Mfg. Corp., Chicago, Ill., for 500 stock cars, to be produced in Birmingham.

Virginia—Chesapeake and Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, planning extensions from Virginia into rich timber and land fields in Pike County, Ky., in region of Levisa Fork and John's Creek; making surveys; also planning to connect lines with Norfolk and Western extension now under way in Buchanan County.

Va., Roanoke—Norfolk and Western Ry. Co., Clyde Cocke, Pur. Agt., confirms report, awarded contract to Ralston Steel Car Co., East Columbus, Ohio, for 100 all-steel 57½-ton hopper bodies to replace old bodies. 3-7

West Virginia—Dempster Construction Co., Inc., G. R. Dempster, Pres., 425 W. Church St., Knoxville, Tenn., advises has sub-contract through A. Guthrie & Co., St. Paul, Minn., for work on 28-mi. extension by Nicholas, Fayette and Greenbrier R. R. Co., subsidiary of Chesapeake and Ohio Ry. Co., Richmond, Va., and New York Central, New York; includes 1 mi. of outside work and 900-ft. tunnel, 20-ft. bore, to be timbered by 12x12 timbers, lined with concrete; work to be completed by Feb. 1, 1930; A. Guthrie & Co., St. Paul, Minn., has general contract. See Want Section—Machinery and Supplies and Miscellaneous. 3-7

### Railway Shops and Terminals

N. C., Monroe—Seaboard Air Line R. R. Co., W. D. Faucett, Ch. Engr., Savannah, Ga., plans constructing power house; private plans.

Va., Fulton—Chesapeake and Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, let contract to Joseph E. Nelson & Sons, Chicago, Ill., for new shop improvements. (See Railways, Va., Richmond. 2-7.)

W. Va., Ronceverte—Chesapeake and Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, Va., soon erect 2 large water tanks, to be supplied from central pumping station.

### Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

#### Proposed Construction

Alabama—State Highway Comn., Montgomery, will improve 4 highway projects with convict labor: 24 mi. road, between Wedowee and Lineville; 13 mi. between Gadsden and Leesburg; 24 mi. between Rockford and Clanton; 13 mi. between Eutaw and Boligee; will start work soon.

Ala., Birmingham—City Comn. receives bids Mar. 26 for 26,985 sq. yd. asphaltic conc., sheet asphalt, Warrenite, bitulithic conc. paving, 3,300 sq. yd. sidewalks, 8,870 lin. ft. gutter and curb, in 18 improvement ordinances; A. J. Hawkins, City Engr.

Ala., Birmingham—City Comn. receives bids May 1 for grading, 2-in. asphalt on 6-in. conc. paving, 24 blocks on Eighty-sixth St. and Third Ave., cost \$250,850; 15 blocks on Eleventh Place, Seventy-fifth St., Fifth, Forty-third and Twenty-sixth Ave., cost \$64,700; A. J. Hawkins, City Engr.

Ala., Heflin—Cleburne County, G. W. Cook, Road Supt., plans repairing and graveling 3 roads leading into Heflin.

Arkansas—State Highway Comn., Dwight H. Blackwood, Chmn., Little Rock, receives bids Mar. 29 to furnish gravel and build 4 roads and 2 bridges: Saline County—3 mi. con. Benton-Hot Springs road, State Highway No. 70, 1320 sq. yd. grading, subgrade and shoulders, 3423 lb. rein. steel, 3464 sq. yd. conc. pavement; Perry County—8 mi. gravel surface, Ola-Perry road, State Highway No. 10, 11,514 cu. yd. gravel surface course, 13,747 cu. yd. surface course material; 9½ mi. gravel surface, Highway No. 10, Ola-Perry road, 13,921 cu. yd. gravel surface course, 12,527 cu. yd. surface course material; Yell County—14 mi. gravel surface, Dardanelle-Ola road, Highway No. 7, 19,725 cu. yd. gravel, surface course, 12,488 cu. yd. surface course material; Cleburne County—670 lin. ft. treated timber pile bent bridges, Heber Springs-Edgemont road, State Highway No. 16, one bridge 458 ft.; other 211 ft., 4236 lin. ft. treated timber piling.

Arkansas—State Highway Comn., Dwight H. Blackwood, Chmn., Little Rock, receives bids Mar. 29 for 5 roads and 37 bridges: Crawford County—5 mi. conc., State Highway No. 71, Mountainburg-Fine Spring road, 6000 cu. yd. excavation, 53,016 sq. yd. conc. pavement, grading, sub-grade and shoulders; Franklin County—9 mi. conc., Highway No. 22, Charleston-Paris road, 7000 cu. yd. excavation and borrow, 99,356 sq. yd. conc. pavement, grading, sub-grade and shoulders; Hot Springs County—11½ mi. gravel surface, Highway No. 6, Hot Springs-Malvern road, 24,403 cu. yd. gravel surface course; Boone County—19 mi. gravel surface, Highway No. 65, Harrison-Omaha road, 40,512 cu. yd. gravel surface course; Sebastian County—8 mi. conc., Highway No. 22, Fort Smith-Charleston road, 9500 cu. yd. excavation and borrow, 89,354 sq. yd. conc. pavement, 89,295 sq. yd. grading, sub-grade, shoulders; Bridges: Stone County—345 lin. ft. treated timber and steel I-beam bridges, Highway No. 66, Mountain View-Timbo road, 4 bridges, 40, 59, 60, 42 ft., respectively, treated timber, framed bent and 186-ft., including two 42-ft. I-beam spans on conc. base, 3095 cu. yd. borrow, 33,725 lb. struct. steel.

In Monroe and Lee Counties—793 lin. ft. treated timber pile bent bridges, Highway No. 3, Clarendon-Marianna road, 8 bridges, varying in length 21 to 344 ft., 5,826 lin. ft. treated timber piling; Mississippi County—251 lin. ft. rein. conc. through girder bridges, Highway No. 18, Leachville-Blytheville road, 5 bridges, three each 26 ft., one 48 ft. and one 95 ft., 2387 cu. yd. excavation, 120,958 lb. rein. steel; Miller County—2384 lin. ft. rein. conc., deck girder bridges on precast conc. pile bents, Highway No. 67, Fulton-Texarkana road, 4 bridges, 171, 613, 647 and 953 ft., respectively, 859,674 lb. rein. steel, 12,785 lin. ft. precast conc. piling; Greene County—1094 lin. ft. treated timber, struct. steel and rein. conc. bridges, Highway No. 1, Paragould-Corning road, 12 bridges, 21 to 97 ft., one 132 ft., one 142 ft., one 161 ft., 5629 cu. yd. excavation and borrow, 149,925 lb. rein. steel, 110,452 lb. struct. steel.

Ark., Camden—City, Jack Hendricks, Chmn. of Street Committee, plans letting contracts for 2 sections of paving on East Washington St.: From end of paving on Washington St. to railroad crossing at Allen Marble Works; from crossing to bridge.

Ark., Little Rock—City, Bd. of Comms., W. C. McNeely, Chmn. of Annex No. 1, Street Improvement Dist. No. 474 and 475, plans grading, curbing, guttering and paving Harrison St., Prospect Ave. to U St.

Ark., Springdale—Comms. Paving Dist. No. 7 received low bid from West Arkansas Construction Co., Fort Smith, \$21,419, for paving Spring St., and part of Mill St. in District.

Ark., Texarkana—State Highway Comn., Dwight H. Blackwood, Chmn., Little Rock, receives bids Mar. 29 for 8 mi. gravel surface, Texarkana-Louisiana State Line road, State Highway No. 71, 15,930 cu. yd. gravel surface course.

D. C. Washington—Dist. Comms. plan paving 15 additional streets in Northwest and Southwest sections.

Florida—State Road Dept., Tallahassee, plans receiving bids for road work in about 7 counties, costing approximately \$875,000: Monroe County—Maintenance of Oversea Highway, Key West to mainland; Escambia County—Road 125; Union County—2 mi.

Road 56; Marion County—Road 19, Williston to Ocala; Putnam County, Road 28, Grandon to Florahome; Taylor County—Road No. 19, Perry to Madison County line, Perry south to Salem; Bay County—Road No. 115, grading, to Choctawhatchee Bay.

Fla., Fort Lauderdale—Broward County Highway Dept., completing plans for about 76 mi. roads and 76 mi. canals, costing \$350,000. See Financial News.

Fla., Miami—Dade County Commrs. plan completing about 20 mi. highways along canal banks in Everglades; \$125,000 available.

Fla., Pensacola—City receives bids soon for 80 blocks of paving and curbing, about \$100,000 available; Frank Jarrett, City Engr., preparing plans, etc.

Ga., Quitman—Brooks County Commrs. plan letting contract, May 1, to pave Quitman-Thomasville road.

Ga., Rossville—Capt. W. J. Redner, Constructing Quartermaster, Fort Oglethorpe, reported, received low bid from Hall & Bowen, Macon, Ga., \$56,794, to pave Hooker Rd. 2-7

Kentucky—State Highway Comm., Frankfort, receives bids April 19 for 12 roads and 2 bridges: Ballard County—6.1 mi. surface, La Center-Paducah road, La Center to McCracken County line; Carlisle County—10.5 mi. grade, drain, Arlington-Mayfield road, Arlington to Graves County line; Hart County—3.5 mi. surface, Munfordville-Elizabethtown road, from point north of Munfordville to point north of Dividing Ridge; 1.7 mi. Munfordville-Elizabethtown road, from point north of Bonnieville to L. & N. R. R., south of Upton; Hopkins-Muhlenberg Counties—grading 1,000 ft. approaches to Pond River Bridge on Nortonville-Greenville road; Livingston County—12.2 mi. Smithland-Paducah road, Smithland to Tennessee River at Clarks Ferry; 3,540 tons crushed stone; 17.1 mi. Marion-Smithland road, Crittenden County line to Smithland, 11,900 tons crushed stone; Logan County—7 mi. grade, drain, Russellville-Central City road, Lewisburg to Muhlenberg County line, near Dunmore.

In McLean County—2.6 mi. grade, drain, Sacramento-Madisonville road, Dutch Fish Trap Bridge, at Hopkins County line to point south of Sacramento; Taylor County—5.3 mi. grade, drain, Campbellsville-Greensburg road, Campbellsville to Green County line; Union County—6.8 mi. grade, drain, Wamamaker-Morganfield road, Webster County line, northward toward Morganfield; 5.9 mi. grade, drain, Sturgis-Shawneetown road, Sturgis toward Shawneetown; Henderson County—bridge over Canoe Creek; one 110-ft. steel span; two 45-ft. rein. conc. deck girder spans; Marshall County—bridge over Clarks River, and overflow structures, Benton-Paducah road; One 100-ft. steel, seventeen 30-ft. rein. conc. deck girder spans; Overflow structure No. 1, three 30-ft. rein. conc. deck girder spans; Overflow Structure No. 2, three 30-ft. rein. conc. deck girder spans; J. S. Watkins, State Highway Engr.

Ky., Paducah—State Highway Comm., Frankfort, receives bids Mar. 26 for 1,245 mi. Paducah-Brookport Landing road, McCracken County, from Brunett St., Paducah, to Brookport Landing Bridge; 20-ft. wide, 14,609 sq. yd. rein. conc., bit. conc. or Warrenite, conc. base; J. S. Watkins, State Highway Engr. 2-14

Louisiana—Louisiana Highway Comm., Baton Rouge, receives bids Mar. 26 for 8,820 mi. 18-ft. conc. Lake Charles—Texas Highway, Calcasieu Parish, also timber bridges; L. R. Ames State Highway Engr. 3-7

Louisiana—Louisiana Highway Comm., Baton Rouge, received low bids for 4 roads, 22 culverts, 5 timber trestles; St. Tammany Parish—2,199 mi. Chef Menteur Highway, from Rigolets Bridge, east, Jahncke Service, Inc., 814 Howard Ave., New Orleans, \$21,624; Orleans Parish—4,342 mi. Chef Menteur Highway, west, from Chef Menteur Bridge, Jahncke Service, Inc., \$6,534; Vermillion Parish—5,766 mi. Abbeville-Intracoastal Canal Highway, Dr. E. P. Jones, Leesville, \$53,427; Sabine Parish—7.92 mi. Many-Texas Highway, Ayres & Graves, Hope, Ark., \$55,932; 7,313 mi. Pleasant Hill-Converse Highway, F. D. Harvey & Co., Jonesboro, \$11,871; Pointe Coupee Parish—16 conc. box culverts, Lottie-Livonia Highway, Lee W. King, McComb, Miss., \$9,743; Jackson-Bienvenue Parishes—6 conc. culverts and 5 timber trestles, Arcadia-Hodge Highway, E. B. Welch, Natchitoches, \$32,746; L. R. Ames, State Highway Engr. 2-14, 2-21

La., Natchitoches—City, O. F. Himel, Clk., receives bids April 2 for 24 blocks sidewalks; Charles D. Evans, Constl. Engr., Shreveport.

La., New Orleans—Louisiana Highway Comm., O. K. Allen, Chmn., Baton Rouge, receives bids April 16 for 16 mi. hard surface Chef Menteur Highway, eastern approach to New Orleans; 20-ft. wide, addi-

tional 10-ft. shoulders on each side later; L. R. Ames, State Highway Engr.

La., New Orleans—City, T. S. Walsley, Commr. of Public Finances, receives bids April 3 for temporarily surfacing 8.24 mi. streets.

La., Shreveport—City Commrs. received low bid from Flenniken Construction Co., Cahn Bldg., to pave West College St.

Maryland—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, receives bids Apr. 9 for 5 roads: Washington County—2.36 mi. macad. resurfacing, State Highway, Williamsport to Lappans, Cont. No. W-59; Carroll County—0.78 mi. conc. along Westminster-Mt. Airy road, end of Cont. No. C1-64 to Taylorsville, Cont. No. C1-75; Talbot County—1.83 mi. conc. along Oxford-Easton road, end of Cont. No. T-24 to Trappe Creek, Cont. No. T-28; Baltimore County—5.36 mi. conc. shoulders, Parkton to Penna. line, Cont. No. B-30-A; Baltimore and Harford Counties—9.24 mi. conc. shoulders along Philadelphia road, Cowenton to Van Bibber, Cont. B-104, and H-69; L. H. Steuart, Sec.

Maryland—State Roads Comm., Baltimore, receives bids Apr. 2 for 6 roads: Frederick County—1.25 mi. conc., State Highway from end of Cont. No. F-106 toward Jefferson, Cont. No. F-123; Montgomery County—91 mi. conc., from Seventh St. to Forest Glen, Cont. No. M-89; Harford County—2.2 mi. conc., from near Level toward Darlington, Cont. No. H-65; Calvert County—2 mi. gravel, end of Cont. No. 3-23 to Plum Point, Cont. No. C-23; Kent County—3 mi. conc. shoulders, from Chestertown to Fairlee, Cont. No. K-4-A; Worcester County—4.47 mi. conc. shoulders, from Pacomoke to Virginia State line, Cont. No. W-9-A; G. Clinton Uhl, Chmn.; L. H. Steuart, Sec.

Maryland—State, Albert C. Ritchie, Governor, Annapolis, plans expending \$23,898,000 during next 2 years for highways, bridges, elimination of grade crossings; 335 mi. post and lateral roads, 45 mi. special new roads, 200 mi. 3-ft. shouldering, 36 mi. 20-ft. widening, 2 large bridges on Eastern Shore, elimination one-way bridges, etc.; John M. Dennis, State Treas.

Maryland—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, considering expending \$525,000 to complete 3-foot shoulders on National Highway toward Baltimore; From top of Martin's Mountain east of Cumberland, then to Conococheague Creek, near Hagerstown.

Md., Baltimore—City, Bd. of Estimates, approved expending \$31,000 to pave sections of eight streets, including Brambleton road, Cylburn, Tuxton Ave.; Nathan L. Smith, Highways Engr.

Md., Baltimore—City, Bd. of Awards, receives bids Mar. 27 to grade, curb and pave with cement conc. streets in Cont. No. 505; furnish, apply, bit. materials; Nathan L. Smith, Highways Engr.

Miss., Ashland—Benton County Bd. of Supvrs. receives bids April 2 for 6½ mi. gravel surface highway, from point north of Tiptah River toward Ripley, to intersect highway from Ripley to Tiptah and Benton County line.

Miss., Belzoni—Humphreys County Bd. of Supvrs., A. R. Hutchens, Clk., receives bids April 1 for furnishing gravel, building road and fills; Gravel Sunflower River road, and construct fill at Rhodenwald, on Central Separate Road Dist., across Burton Bayou, Road Dist. No. 4.

Miss., Jackson—City Commrs., plan opening Fortification St. to A. & V. Railroad; extend Riverside St. around to waterworks and then to Laurel St., etc.; J. J. Halbert, Engr.

Miss., Jackson—City, Walter A. Scott, Mayor, plans expending \$50,000 for street improvement and extension, including extending Fortification St., from A. & V. Railroad to Livingston Park. See Financial News, 2-14

Miss., Louisville—City, Mayor and Bd. of Aldermen, receive bids Apr. 2 for grading, draining, surfacing and paving with conc., vitrified brick, sheet or rock asphalt, on conc. or stone base, Church St.; F. A. Livingston, City Engr.

Miss., Magnolia—Pike County Bd. of Supvrs. approved appropriation of \$35,000 toward paving 18-ft. Highway No. 51 through McComb; city of McComb, N. A. Kramer, Mayor, will pave additional 11-ft. strip, lay curb, gutter and storm drainage.

Miss., Meridian—City plans paving 8 to 10 mi. streets and avenues in 1923.

Miss., Senatobia—Town, Mayor and Bd. of Aldermen, receive bids April 3 to pave and improve various streets; Thos. H. Allen, Engr., Front and McCall St., Memphis, Tenn.

Missouri—State Highway Dept., Jefferson City, lets contract in Aug. for 20-ft. conc. slab, U. S. Highway No. 61 from Eolia,

through Lincoln County to St. Charles County line; 3 mi. at Bowling Green; 10 mi. between Hannibal and New London; T. H. Cutler, State Highway Engr.

Mo., Appleton City—City plans expending \$24,000 to pave Main St. See Financial News.

Mo., Mexico—State Highway Dept., Jefferson City, plans 112 mi. farm to market roads in Audrain County: From Highway No. 54, south to Benton City and on to Callaway County line; from Mexico to Perry, connecting with Highway No. 26; southwest from Mexico to connect with Highway No. 40; gravel road, from Highway No. 54-A, from Audrain County line, along Audrain-Ralls County line, to join Highway No. 54, north of Laddonia; Harry Griffith, Div. Highway Engr., Hannibal; T. H. Cutler, State Highway Engr.

Mo., Perryville—State Highway Dept., Jefferson City, may let contract in April to gravel surface 7 mi. 80-ft. wide, State Highway No. 51, from Perryville to McBride Hill, Perry County; T. H. Cutler, State Highway Engr.

Mo., Shelbyville—State Highway Dept., Jefferson City, let contract in April for paving U. S. Highway No. 36, from Shelbyville to Macon, Shelby County; conc. paving, from Hannibal to St. Joseph; T. H. Cutler, State Highway Engr.

Mo., St. Louis—City, Bd. of Public Service, receives bids Mar. 26 for 19,300 sq. yd. asphaltic conc., Warrenite bitulithic, amiesite and asphalt paving; W. W. Horner, City Engr.

N. C., Lexington—State Highway Comm., Raleigh, will make survey to extend State Highway No. 109 from Thomasville, Davidson County, to Forsyth County line.

Okla., Muskogee—Muskogee County plans resurfacing 2½ mi. Jefferson Highway south of Muskogee; C. R. Morgan, County Engr.

Okla., Tulsa—City, Dan Patton, Mayor, receives bids soon to pave Zenith, Twenty-ninth, West Ave., and widening Eighth St., Main St. to Elgin Ave.; sanitary sewer in Brookside addition; K. R. Teis, City Engr.

South Carolina—State Highway Dept., Ben M. Sawyer, Ch. Highway Commr., Columbia, receives bids Mar. 26 for 6 roads, 5 bridges and culvert: Aiken County—3,785 mi. plain Portland cement conc., Route 1, Clearwater to Augusta, 12,000 cu. yd. excavation, 24,911 sq. yd. 7½-6-7½-in.-20-ft. wide conc. paving, 19,284 sq. yd. 8-6½-8-in.-20-ft. wide conc. paving; Charleston County—15 mi. Route 2000 sq. yd. 8-6½-8-in.-20-ft. wide conc. paving; Chester County—9,387 mi. Route 21, Chester to York County line, 14,080 cu. yd. excavation, 45,486 sq. yd. 7½-6-7½-in.-18-ft. wide conc.; 52,655 cu. yd. 8-6½-8-in.-18-ft. wide conc.; Colleton County—665 mi. repaving, Route 17, in Great Swamp; Orangeburg County—9,318 mi. Route 21, Rowesville to Branchville, 61,501 cu. yd. excavation, 25,311 cu. yd. sand-clay surfacing.

Saluda County—1,128 mi. Route 391, approaches to Big Saluda and Little Saluda Rivers 23,437 cu. yd. excavation, 3371 cu. yd. top soil surfacing; Sumter County—constructing culverts and placing pipe on Routes 54, 76 and 763 for drainage canals, 6700 lb. rein. steel; Aiken County—75-ft. treated timber bridge over Hollow Creek, Route 393, between Perry and intersection of Routes 3 and 393, 14,181 M.B.M. treated lumber; Anderson County—2 rein. conc. bridges; 175-ft. over Rocky Creek, 150-ft. over Cox Creek, Route 248, between Williamston and Anderson, 177,000 lb. rein. steel; Kershaw County—200 ft. rein. conc. and steel bridge at Lynches River, raising and lengthening bridge over Little Lynches River, Route 1, near Bethune, 2000 lin. ft. treated timber piles, 22,000 lb. rein. steel, 36,000 lb. struct. steel; Lexington County—rein. conc. bridge over Factory Pond between Lexington Depot and Lexington on Saluda Dam road, 41,000 lb. rein. steel.

S. C., Aiken—City, Elroy G. Smith, City Engr., plans paving Hayne Ave. with 20-ft. asphalt slab down center, from Curve St. to city limits; Laurens St., with asphalt on eastern side, from business district to city limits.

S. C., Winnsboro—Fairfield County plans expending \$36,000 for highways. See Financial News.

Tennessee—Dept. of Highways and Public Works, R. H. Baker, Commr., Nashville, receives bids Apr. 12 for 12 roads and 22 bridges: Hardin County—15.87 mi. cement conc., State Highway No. 15, Savannah to Wayne County line; McNairy County—13.78 mi. Highway No. 5, Selmer to Chester County line; McMinn County—2.79 mi. Highway No. 2, Athens to F. A. P. 6; Monroe County—6.48 mi. Highway No. 2, McMinn County line to Loudon County line; Putnam County—13.52 mi. rock asphalt surface, cement conc. base, Highway No. 42, Cookeville to Monterey; Loudon County—11 mi. cement conc., High-



way No. 2, Monroe County line to Lenoir City; Weakley County—9.93 mi. grading, draining, Highway No. 54, Dresden to Weakley County line; also 11 treated timber bridges; Lincoln County—14.56 mi. grading, draining, Highway No. 15, Giles County line to Fayetteville; bridges over 20-ft. span; Williamson County—3.85 mi. grading, draining, Highway No. 100, end of Project No. 508-D to Davidson County line; Carter County—7.78 mi. grading, draining, Highway No. 67, Hampton to Johnson County line; 3 bridges over 20-ft. span; Johnson County—2.45 mi. grading, draining, Highway between High Health and Butler; 2 bridges over 20-ft. span; Marion County—5.215 mi. grading, draining, Highway No. 2, Jasper to Tennessee River near Hales Bar Dam.

Tenn., Chattanooga—City, R. Crox, Commr. of Streets, plans expending \$1,500,000 for various improvements including streets, sewers and schools.

Tenn., Cleveland—City Council considering expending \$150,000 street paving, including Nineteenth, Twenty-sixth and Oak St. See Financial News.

Tex., Fairfield—State Highway Dept., R. S. Sterling, Chmn., Austin, may receive bids in April for 17 mi. grading, draining, Highway No. 32, Fairfield to Leon County line; Gibb Gilchrist, State Highway Engr. Lately noted bids Mar. 18. 3-14

Tex., Houston—City plans paving Helena St., McGowan to Hathaway St.; J. C. McVea, City Engr.

Tenn., Knoxville—City, City Mgr. Bass, plans expending \$600,000 to improve sections of about 30 streets, including Keith and Wilder Sts.

Tenn., Lebanon—City, E. E. Adams, Clk., plans street improvement. See Financial News.

Tex., Anahuac—Chambers County Commrs. Court plans expending \$20,000 to hard surface about 5 mi. roads, Wallisville Precinct. See Financial News.

Tex., Beaumont—Jefferson County, B. B. Johnson, County Engr., plans 100-ft. wide 18-ft. conc. paving on 25-ft. crown, Dryden road, on Port Arthur-Orange Highway, between Port Arthur and Neches River.

Tex., Beaumont—City, J. W. Anderson, Mgr., plans expending \$1,371,500 for paving. See Financial News. 2-28

Tex., Bonham—Fannin County, C. A. Wheeler, Judge, plans expending \$2,700,000 for road building. See Financial News.

Tex., Boston—Bowie County plans road building in Road Dist. No. 6; Public roads and north and south highway from Red River to Sulphur River. See Financial News. 2-14

Tex., Bryan—City Comm., plans 10 blocks additional paving, including Jones St., Bryan Ave.

Tex., Fort Worth—City, O. E. Carr, Mgr., considering paving Lowden St., Lubbock to Merida, and Merida, Bowie to McPherson St.

Tex., Fort Worth—State Highway Comm., R. S. Sterling, Chmn., Austin, may receive bids Apr. 4 for 14 mi. Northwest Highway in Tarrant County, from Tarrant-Denton County line to Denton-Wise County line; Gibb Gilchrist, State Highway Engr.

Tex., Fort Worth—Tarrant County Commrs. Court plan opening Hampton road, about 1/2 mi. from old Cleburne road, east.

Tex., Fort Worth—Tarrant County, D. A. Davis, County Engr., completing plans for 1 1/2 mi. Weatherford road, from city limits west.

Tex., Galveston—Galveston County, E. B. Holman, Judge, completed plans for 3 mi. road, connecting Texas City with main Galveston-Houston trunk highway, below La-Margue; C. C. Washington, County Engr. 2-7

Tex., Port Arthur—State Highway Dept., R. S. Sterling, Chmn., Austin, plans about 400 tons shell along shoulders of Procter St., Beaumont road to Second St.; Milton Hayes, Dist. Supt.

Tex., San Antonio—City, C. M. Chambers, Mayor, receives bids Mar. 25 to improve Hildebrand Ave. and Keller St.; I. Ewig, City Engr.

Tex., Sherman—City Comm., considering widening South Crockett St. at King St.

Tex., Smithville—City Council plans expending \$20,000 for 30 blocks 20-ft. wide, gravel with deep asphalt surface pavement; sold bonds.

Virginia—State Highway Comm., H. G. Shirley, Commr., Richmond, received low bids for 5 roads and 2 bridges; Mecklenburg County—2.679 mi. Route 32, top soil and sand-clay, Clarksville, G. Y. Carpenter, Chester, Va., \$14,515; Buckingham County—4.517 mi. top soil, sand-clay, Route 32, from Dillwyn, W. H. Clark & Co., Charlottesville, \$17,162; Charlotte County—2.078 mi. top soil

or sand-clay, Route 20, from Phenix, west, including bridge over Cub Creek, Pace Construction Co., Mountain Tr. Bldg., Roanoke, \$32,787; Gloucester County—4.868 mi. grading, draining, Route 602, Glens-Adner road, G. Y. Carpenter, \$22,784; Prince George County—6.149 mi. grading, draining, Route 407, from point east of Hopewell, including bridge over Walls Branch, G. Y. Carpenter, \$45,144. 2-21, 2-28

Virginia—State Highway Comm., H. G. Shirley, Commr., Richmond, receives bids Apr. 2 for 3 roads; Wise and Lee Counties—6.79 mi. macad. Route 160, from Lee-Scott County line; Scott County—6.5 mi. macad. Route 106, from intersection of Route 10; 4.29 mi. macad. Route 106, from Lee-Scott County line.

Va., Harrisonburg—Rockingham County Bd. of Suprvs. approved construction of 80-ft. wide straight highway from Valley Pike to Endless Caverns, by Endless Caverns Corporation; cost \$40,000.

Va., Harrisonburg—State Highway Comm., H. G. Shirley, Commr., Richmond, will start about Apr. 1 to widen Shenandoah Valley Pike to 86 ft. and build 20-ft. roadway between Harrisonburg and Staunton.

Va., Norfolk—State Highway Comm., H. G. Shirley, Commr., Richmond, plans paving, in June, Waterworks road, from point near intersection Chesapeake Beach road, to Norfolk County line, en route Norfolk, via Balentine Place or Brambleton; convicts will do work.

Va., Richmond—City, R. Keith Compton, Dir. of Public Works, receives bids Apr. 17 to pave 9 streets with sheet asphalt on conc. base; A. Mason Harris, Engr.

W. Va., Clarksburg—City, D. H. Hamrick, Clk., receives bids Mar. 28 for paving, sewer, etc., on N. Sixteenth St., Glendale Ave., Point Comfort Bridge and approaches; 2035 cu. yd. grading, 1068 cu. yd. rein. conc., 4193 lin. ft. curb, 900 lin. ft. 6 to 12 in. sewer pipe, manholes and inlets.

W. Va., Huntington—Cabell County, Grant Dist., plans expending \$286,000 to repair 13 roads in Dist. See Financial News.

W. Va., Welch—McDowell County Road Dept., Howard K. Carper, County Clk., plans improving road in Sandy River Dist.; Chas. H. Payne, County Road Supvr.

#### Contracts Awarded

Ala., Mobile—Mobile County Bd. of Revenue and Road Commrs. let contracts for 3 roads, 2 bridges; Improvement No. 4-B—bridges and drainage structures on Cedar Point road, Cox & Bryson Paving Co., Anniston, \$32,212; No. 21—bridges and structures on Cottage Hill road, Bay Construction Co., Mobile, \$12,335; No. 9-B—paving, etc., Dawes road, Hancock Brothers, 310 St. Michael St., Mobile, \$130,123, asphaltic conc. base, bit. top; No. 12—paving Bay Bridge approaches, Carey-Reed Co., Inc., Guaranty Bank Bldg., Lexington, Ky., \$41,254, amiesite base and top; No. 22—grading and paving Turner road, Mobile Construction Co., Meagher Bldg., Mobile, \$81,503, asphaltic conc. base, Trinidad top; rejected bids on other improvements. 2-14

Fla., Miami—City Commrs., H. E. Ross, Clk., let contract to Morgan-Hill Paving Co., 71 N. E. 21st St., Miami, for sidewalks and paving approaches to N. E. Seventy-ninth St. Bridge.

Fla., Orlando—Orange County Commrs. let contracts at about \$429,518 for 40.28 mi. hard surfaced roads: To Cox & Bryson Construction Co., \$32,943, for Sec. 2; at \$137,202 for Sec. AA; to Langston Construction Co., \$124,261 for Sec. BB; \$132,112 for Sec. CC.

Ga., Atlanta—MacDougald Construction Co., 289 1/2 Peachtree St., has contract for conc. paving on various streets including Stanton St., Palfox Drive, Lanier Blvd.; Walter C. Taylor, City Clk.

Md., Baltimore—City, Bd. of Awards, let contract to Mahoney Bros., 1111 Rutland Ave., \$11,183, for 5,200 sq. yd. granite block repaving, streets, Cont. No. 503. 2-14

Mo., St. Joseph—Bd. of Public Works let contract to Bridgeford Construction Co., to repave Frederick Blvd., from Twenty-sixth St. to State Hospital No. 2 grounds; to Consolidated Paving and Material Co. to resurface boulevard; total low bids \$55,275.

N. C., Nashville—Nash County Highway Comm. let contract to Interstate Construction Co., High Point, \$7,000, to re-surface with sand-clay gravel 6 mi. Spring Hope-Flood Chapel road; B. W. Davis, County Engr. 2-28

Okla., Altus—City let contract to Western Construction Co., 922 First National Bank Bldg., Oklahoma City, \$92,474, to improve 23 mi. streets and roads, including trenching, and 34,000 tons graveling.

Okla., Britton—City, D. A. Riley, Clk., let contract to Conley Bros., El Reno, \$10,000, for one course 6-in. conc. paving, Everest St.

Okla., Chickasha—City let contract to Edminston Construction Co., Chickasha, \$26,864, for grading and 8,700 sq. yd. conc. paving; at \$40,636, for grading and 13,650 sq. yd. conc. paving.

Okla., Pryor—City, Thomas J. Harrison, Mayor, let contract to Dick & Harbert Construction Co., Oklahoma City, \$31,223, for rein. conc. paving on Adair, Vann, First and Mill Sts. 2-21

Tex., El Paso—El Paso County, E. B. McClintock, County Judge, let contract to Ware-Ramey Co., 1614 E. Missouri St., \$41,920, for 1 1/2 mi. paved road on Fabens Island. 2-28

Tex., Fort Sam Houston, San Antonio—Constructing Quartermaster let contract to Southwest Bitulithic Co., 302 Castro St., San Antonio, \$42,382 for rein. conc. pavement, integral curbs, and conc. sidewalks, Road No. 18, from New Braunfels Ave. to Frank St., Shirley St., Road 18 to Wilson St., and service roads. 3-14

Tex., Plainview—Jordan Hall Construction Co., Plainview, has contract, about \$80,000, for brick street paving. 1-10

Tex., Stephenville—City, C. C. Davis, Sec., let contract to Thurber Construction Co., Fort Worth, \$207,000 for about 4 mi. 30-ft. brick or crushed stone paving, sewer and water extension; F. J. Von Zuben, Engr., Fort Worth. 3-7

#### Sewer Construction

**Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.**

La., Pineville—City, J. M. Rembert, Mayor, will let contract Apr. 29 for completion of sewer system; Swanson & McGraw, New Orleans, Engrs.; H. S. Henning, New Orleans, Res. Engr.

La., New Orleans—Thmoas H. Brockman, Canal Bank Bldg., has contract at \$318,668 for constructing lined and covered drainage canal and pipe line in Nashville Ave., McKenna St., S. Lopez St. and Fontainebleau Drive; H. Pratt Farnsworth, Canal Bank Bldg., low bidder at \$183,879 for construction of extension to drainage pumping station No. 6. 3-7

Miss., Goodman—City votes March 25 on \$20,000 sewer bonds.

Mo., Jefferson City—City receives bids April 1 for sewers in Dist. No. 43. See Want Section—Bids Asked.

Mo., Luxemburg, Mail St. Louis—City soon receive bids for sewers in Lemay Ferry Sewer Impv. Dist.; cost \$450,000; W. Stoeker, Engr., 650 E. Big Bend Rd., Webster Grove.

Mo., Springfield—City has plans by Russell & Axon, Constt. Engrs., 404 McDaniel Bldg., for Northeast sewer outfall, cost \$200,000; Northwest outfall and disposal plant at Dolling Park, cost \$95,000; storm sewer in southeast part of city, cost \$240,000; Jordan Valley sewer, cost \$360,000, etc.; may vote on bonds.

Mo., St. Louis—Bd. of Public Service soon receive bids for reconstructing Camp Spring sewer; cost \$33,879.

N. C., Charlotte—Tucker & Laxton Co., Charlotte, have contract for sewage outfall; Wm. M. Piatt, Constt. Engr., First Natl. Bank Bldg., Durham.

N. C., Charlotte—Carolina Concrete Pipe Co., low bidder for furnishing conc. pipe for proposed Briar Creek sewer outfall. 2-28

N. C., Durham—Stowell Construction Co., Seitz Bldg., Syracuse, N. Y., has contract at \$44,237 for 10 mile of sewer including pipe.

N. C., High Point—Tucker and Laxton, Independent Bldg., Charlotte, have contract at \$39,349 for sewers. 3-7

Okla., Oklahoma City—Leo Sanders, 2916 1/2 N. Hudson St., Oklahoma City, has contract for Blackwelder Ave. storm sewer. 1-24

Okla., Tulsa—See Roads, Streets, Paving. S. C., City View, Greenville—See Water Works.

Tenn., Chattanooga—City, Ed. Bass, Mayor, plans sewers in Brainerd section; W. H. Wilson, City Engr.

Tenn., Chattanooga—See Roads, Streets, Paving.

Tenn., Nashville—W. L. Hally, 342 42nd Ave., has contract for sanitary clay pipe sewer.

Tex., Abilene—City receives bids Mar. 25 for \$30,000 sewers from hospital building to city mains. 3-7

Tex., Big Springs—City plans \$30,000 storm sewer extension.

Tex., Fort Worth—Purvis and Bertram, have contract for storm sewer on S. Calhoun St.

Tex., Hallettsville—J. B. McCrary, Praetorian Bldg., Dallas, reported has contract for 9000 ft. of 12-in. sewers. 1-31

Tex., Houston—City receives bids March 27 for storm sewers. See Want Section—Bids Asked.

Tex., Humble—Utilities Construction Co., Inc., 4713 Greely St., Houston, has tentative plans for laying 8-in. water main on Main St.; install fire plugs, etc.

Tex., Muleshoe—Montgomery & Ward, Const. Engrs., Harvey-Snyder Bldg., Wichita Falls, making survey for sewer system.

Tex., San Antonio—City having plans prepared by G. H. Cumberland, City Storm Sewer Engr., for storm sewer in southeastern section of city; cost \$165,000.

Tex., San Antonio—City, C. M. Chambers, Mayor, plans storm sewer in Highland Park; cost \$165,000.

Tex., Tyler—City, Lee H. Powell, City Mgr., will soon have plans prepared for \$175,000 sewage disposal plant and improvements. 2-21

Va., Hopewell—City construct sewer extension on Cawson St., divert sewage from Appomattox River and to Cattail Creek.

W. Va., Clarksburg—See Roads, Streets, Paving.

W. Va., Huntington—City soon call for bids for 2 mile extension to Westmoreland's sanitary sewer system.

### Shipbuilding Plants

Md., St. Michaels—Edward Kirby Shipyard, Chad Jones, has plans under way for shipbuilding and repair plant on Woodalls Point, consisting of metal and iron-working shop, wood-working shop and other units.

### Telephone Systems

Ky., Lexington—Patterson Copeland and Kendal Co., 231 S. LaSalle St., and George W. Thompson, 134 S. LaSalle St., Chicago, Ill., reported, acquired Fayette Home Telephone Co.; involves approx. \$4,000,000; Lexington Telephone Co., a Delaware corporation, organized to operate utility beginning April 1.

N. C., High Point—North State Telephone Co. receiving bids for \$15,000 telephone building; brick, steel, built-up roof, 3-story and basement; Fred B. Klein, Archt., 154 S. Main St.

Okla., Norman—Southwestern Bell Telephone Co., A. G. Mills, Building Engr., Oklahoma City, advises, receives bids Mar. 27 for addition to telephone building; 2-story and basement, brick exterior walls, rein. conc. floor slabs. 2-21

Tenn., Cookeville—Gainesboro Telephone Co. soon begin erecting telephone building, Broad St., near public square; brick.

Tex., Beaumont—Southern Bell Telephone Co., J. G. Gwin, local manager, authorized improvements in city to cost \$150,000; \$60,000 for extension of lines and \$63,000 for central switchboard.

Tex., Crystal City—Del Rio & Western Telephone Co., Del Rio, has low bid from L. F. Hall for telephone building at \$12,495; Ernest B. Hays, Archt., 516-17 Milam Bldg.; W. E. Simpson Co., Engr., Natl. Bk. of Commerce, both San Antonio. 3-7

Tex., Los Fresnos, San Antonio—Rio Grange Valley Telephone Co., J. C. Paxton, Gen. Mgr., McAllen, let contract to Jack Lyle, Weslaco, for telephone exchange and residence; A. H. Woolridge, Archt., McAllen. 2-21

Tex., Waco—Southwestern Bell Telephone Co., St. Louis, reported, acquired Texas Long Distance Telephone Co., J. B. Earle, Pres.; plans rebuilding outside plant at Ennis; replace entire central office equipment at McGregor and probably erect building; begin in 60 days on rebuilding exchange at West.

Va., Richmond—Chesapeake and Potomac Telephone Co. of Virginia let contract to Consolidated Engineering Co., Baltimore, Md., for telephone building, Seventh and Grace Sts.; foundation work, practically complete, by Foundation Co., New York City; McClintic-Marshall Co., Pittsburgh, Pa., begin immediately on steel superstructure; complete cost

\$900,000; Voorhees, Gmelin & Walker, Archts., 228 E. 56th St., New York City. 2-21

### Textile Mills.

Ga., Cartersville—Cartersville Mills, J. F. Fowler, V.-P., plans addition to main plant.

Ga., Gainesville—Lonsdale Co., Providence, R. I., reported, acquired 800 acres on Chattahoochee River as site for 50,000 spindle mill; rein. conc., brick walls, tar and gravel roof, wood and conc. floors; J. E. Sirrine & Co., Engrs., Greenville, S. C., for first unit; manufacture sheetings and cambrie.

Ga., Lindale—Pepperell Mfg. Co., Lowell, Mass., erect 2-story, 200x104-ft. plant for cloth finishing.

Ga., Thomaston—Batson-Cook Co., Inc., West Point, has contract for addition to Martha Mills for B. F. Goodrich Rubber Co., Akron, Ohio; contract comprises approximately 300,000 sq. ft. additional floor space in mill building proper, increasing size of mill from 32,000 spindles to 80,000 spindles, and 510 cottages; plans and specifications by Robert & Co., Inc., Engrs., Atlanta; Saco-Lowell Shops, Boston, Mass., have contract for 30,000 spindles and preparatory machinery, at cost of about \$1,200,000. 3-14

Md., Hillside, Sta. Baltimore—Woodberry Bleach & Dye Works, Inc., reported, leased weave building unit of Capital Cotton Mill from Ashland Mfg. Co., together with sufficient land for additional buildings; will alter; use for dyeing, bleaching and processing cotton yarns and fabrics.

Miss., Waynesboro—J. W. Sanders, reported, interested in establishment of 12,000 spindle spinning and weaving cotton mill; brick, steel and conc.; install modern machinery; erect mill village of 75 cottages.

N. C., Burlington—Foster Knitting Co., capital \$100,000, incorporated; Charles F. Foster, M. A. Coble; erect hosiery plant Morehead and Cameron Sts.; 100x84 ft.; mill construction; install 14 full fashion knitting machines, increase to 40.

N. C., Burlington—Grover D. and Keith Moore, reported, leased building at Front and Worth Sts.; establish hosiery mill; install 22 H.H. automatic machines.

N. C., Charlotte—The Duchess, Inc., Arthur Jepson and Harry Baum, manufacture knit products.

N. C., Greensboro—Walter Kidde & Co., Inc., Jefferson Bldg., Greensboro, have contract for \$350,000 addition hosiery mill for Mock-Judson-Voehrlinger Co., Inc.; conc. footings, brick walls; tar and gravel roof, sprinkler system. 3-7

N. C., Statesville—Ritca Hosiery Mills, Inc., D. C. Ritchie, Pres., let contract to Grier-Lowrance Const. Co., Statesville, for men's half hose plant, daily capacity 250 doz. prs; 50x100 and 30x50 ft.; 2 story; brick; cost \$20,000; install 30 knitting machines; Scott & Williams, Inc., 336 Broadway, New York; Southern Textile Machinery Co., 200 Norton St., Paducah, Ky.; Kester Machy. Co., Winston-Salem, and Smith Drum & Co., Allegheny Ave., Philadelphia, Pa., Mchy. Contrs. 3-14

S. C., Spartanburg—Fairforest Finishing Co., organized with M. R. Reeves, Pres., New York; H. A. Ligon, Spartanburg, Treas.; establish \$1,000,000 bleaching and finishing plant; has site on N. Tyger St.; grading operation to begin immediately and plans for buildings being prepared by Lockwood Greene Engineers, Inc., 100 E. 42nd St., New York; install modern machinery for bleaching, mercerizing, dyeing and all grades of finishing for rayon and silk goods; yearly capacity between 60,000,000 and 80,000,000 yds.; plant will be single unit with 130,000 sq. ft. of floor space; construct village of 50 houses.

Tenn., Birchwood—J. D. Bare, L. A. Slevidge interested in establishment of \$30,000 hosiery mill; install 50 machines.

Tenn., Chattanooga—Davenport Hosiery Mill, R. B. Davenport, Pres., plans expending \$200,000 in 1929 for improvements, install additional full fashioned hosiery machines.

Tenn., Columbia—Cadet Hosiery Co., Second and Allegheny Sts., Philadelphia, Pa., having plans prepared by Robert & Co., Inc., Bona Allen Bldg., Atlanta, Ga., for silk hosiery mill. 2-7

Tenn., Nashville—Sumner Construction Co., 155 Fourth St., Nashville, has contract for mill unit for Full Fashioned Hosiery Mills, T. Walter Fred, Owner, Chattanooga; 2 story and basement, 300x126 ft., rein. conc. footings, brick walls, c. i. columns, tar and gravel roof, steel sash and doors, sprinkler system; Robert & Co., Engrs., Bona Allen Bldg., Atlanta, Ga. 3-14

### Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Alabama—Alabama Water Co., Birmingham, granted permission by Alabama Public Service Comm., Montgomery, to construct transmission line from Albertville to Boaz.

Ala., Florence—City, W. S. Eastop, Mayor, install standpipe, and coagulating basin; cost \$45,000.

Ga., Griffin—City votes April 24 on \$184,000 water works bonds.

La., Oak Ridge—City votes April 16 on \$10,000 water works bonds.

Md., Baltimore—Bd. of Awards receives bids March 27 for furnishing and installing equipment at Guilford pumping station. See Want Section—Bids Asked.

Miss., Jackson—City, Walter A. Scott, Mayor, begin construction work in May on water works extensions and improvements; cost \$175,000, and extension of storm and sanitary sewers, \$50,000; voted bonds. See Financial News. 2-14

Mo., Harrisonville—E. W. Bacharach & Co., 207 Rialto Bldg., Kansas City, has contract at \$7790 for mechanical filter equipment for water works; Chicago Bridge & Iron Works, 37 W. Van Buren St., Chicago, Ill., at \$8900 for tank and tower; J. O. O'Neil, Leavenworth, Kans., at \$37,520 for general construction work including pipe, hydrants, valves, pumps, etc.; B. D. Prater, Harrisonville, at \$24,324 for building and conc. work, earth dam. 3-14

Mo., St. Louis—Midwest Piping & Supply Co., 1450 South 2nd St., has contract at \$30,392 for carbonating plant for Howard Bend water station on Missouri River.

Okla., Blair—Western Construction Co., First Natl. Bldg., Oklahoma City, has contract at \$47,100 for sewer and water works; Milliken & Whiteneck, Engrs., Oklahoma City. 3-14

S. C., City View, Greenville—City plans issuing \$50,000 bonds for water and sewer.

S. C., Rock Hill—City plans calling for bids soon on water works; Robert & Co., Inc., Engrs., Bona Allen Bldg., Atlanta, Ga. 1-10

Tenn., Knoxville—American Water Works and Electric Co., 50 Broad St., New York, negotiating for franchise and property of Fountain City Water Co.

Tenn., Mountain City—City votes April 10 on \$40,000 water works bonds.

Tex., Corpus Christi—McWane Cast Iron Pipe Co., 3700 11th Ave., N., Birmingham, Ala., has contract for supplying pipe for \$60,000 water and gas supply system.

Tex., Del Rio—City, John Y. Long, Mayor, erect 2 water tanks, conc. or steel; capacity 2,000,000 gal.; cost \$38,000; W. E. Simpson & Co., Engrs., 412 National Bank of Commerce Bldg.

Tex., Dimmitt—Montgomery & Ward, Const. Engrs., Harvey-Snyder Bldg., Wichita Falls, making survey for water and sewer system.

Tex., West University City, Austin—Acquired water works plant of C. A. Bryan Corp., serving South End Addition, Collegeview Court Place, Colonial Terrace.

### Woodworking Plants

Ga., Quitman—Reinschmidt Stave Co., R. S. Reinschmidt, plans installing \$50,000 veneer plant in connection with stave mill.

Ky., Beattyville—John Richardson establish hickory mill.

Ky., Louisville—May Hardwood Co., Starks Bldg., increasing capital stock, \$50,000 to \$100,000.

Miss., Charleston—Frazier Barrel Stave and Heading Co., Bank of Commerce Bldg., Memphis, Tenn., acquired 18-acre site for plant; employ 25.

N. C., Haynesville—Foard Veneer Co., J. S. Foard, advises constructing veneer plant by company's forces; install capital machines. 2-21

N. C., Mount Olive—Northeast Stave Co., capital \$100,000, incorporated; S. S. Monton, J. J. Whitehurst.

N. C., Plymouth—Chicago Mill and Lumber Co., Conway Bldg., Chicago, Ill., acquired Wilts Veneer Co. and National Veneer Co., subsidiaries of Richmond Cedar Works, Richmond, Va.; includes tracts of gum timber used in manufacturing plywood, also plants at Plymouth and Ayden.



Tenn., Hornsby—A. Seaman & Son, Selmer, establish stove mill; plan beginning operations by July 1.

Tenn., Knoxville—Sterchi furniture interests, consisting of 2 plants and retail stores in 41 cities in 7 Southern states, reported, will consolidate to form Sterchi Bros. Stores, Inc.; J. G. Sterchi to direct new company.

## FIRE DAMAGE

Ala., Anniston—James Murphy's residence. Ala., Birmingham—Interior of North Birmingham School; loss \$50,000. Address Bd. of Education.

Ala., Florence—T. Ashby Brunson's residence, Mars Bluff community; Mrs. J. R. Vane's residence, Mechanicsville Rd., Darlington County.

Ala., Montgomery—James A. Lenz's residence.

Ark., Hot Springs—Ouachita Service Station, Ouachita Ave., National Park.

Ark., Lepanto—Seed house of Stuckey Gin.

Fla., Palm Beach—Palm Beach Bath and Tennis Clubhouse; loss \$20,000.

Ga., Hartwell—Col. J. E. Tindler's residence.

Ky., Louisville—Goodware Overall Mfg. Co.'s plant; loss \$20,000.

Ky., Louisville—T. Noonan Ryan's residence, 316 S. 5th St., 1859 Woodfil way; loss \$10,000.

La., Boyce—Eddie Cleveland's residence.

La., DeRidder—Two school buildings. Address School Bd.

La., New Iberia—Residence in East End, owned by Laurens Bayard.

La., New Orleans—Venus Motion Picture Theater; loss \$15,000. Address The Management.

Md., Baltimore—Oscar L. Butler's building, 1722 N. Charles St., occupied by Renno-Holmes Ignition Sales Co.

Md., Cumberland—Club Recreation Parlor, N. Mechanic St., Patrick J. Stakem, Propr.; loss \$15,000.

Miss., Hollybluff—Lake George Hardwood Lumber Co.'s mill; loss \$100,000.

Mo., Eterville—H. P. Drane's store; M. W. of A. Hall; Eterville Bank building.

Mo., Unionville—Houermale Block, including Ruth Shoe Store, Potts' Radio Store; loss \$50,000.

N. C., Cleveland—R. Neal Moore's store; loss \$10,000.

N. C., Monroe—J. T. Shute's 3-story building on Franklin St., first floor occupied by American Cafe, Miller's barber shop and R. C. Funderburke's grocery store.

Okla., Purcell—Morgan Gin Co.'s plant; loss \$25,000.

S. C., Fort Mill—First Baptist Church. Address The Pastor.

S. C., York—Residences on King's Mountain St., owned by Harvey E. Ferguson and Miss Margaret McCorkle; loss \$18,000.

Tenn., Buntyn—E. B. Ford's grocery store and dwelling, 628 Speed St.

Tenn., Johnson City—Interstate Foundry and Machine Co.'s furnace and casting room.

Tenn., Nashville—Harry G. Walter's residence, 929 Russell St.; loss \$15,000.

Tex., Claremont—Claremont Hotel. Address The Management.

Tex., Columbus—Catholic Church building. Address The Pastor.

Tex., Corsicana—Lucille Harris' residence; loss \$7,000.

Tex., Dallas—Lake Cliff Casino, building occupied by James P. Simpson Co. and King Scenic Studio.

Tex., El Paso—Chocolate Shop, 209 Texas St., owned by W. G. Casten.

Tex., Fort Worth—Poultry, merchants' and agricultural exhibits buildings of Southwestern Exposition and Stock Show; loss \$100,000.

Tex., Galveston—Thomas Goggan & Bros. building, 22nd and Market Sts.; loss \$10,000.

Tex., Sanderson—Power plant of Texas-Louisiana Power Co., Ft. Worth; loss \$50,000.

Tex., Temple—McQueen Pharmacy and Graham, Jarrell Department Store; loss \$50,000.

Va., Norfolk—Hotel Preston, Boush St. and College Place, owned by L. P. Matthews; loss \$10,000.

Va., Richmond—Old Hygeia Hospital, owned by Dr. John R. Blair.

W. Va., Belington—Lucerne Hotel, owned by J. R. Hickman; loss \$22,000.

ceives bids April 5 for 12-story office building, Amite and Congress Sts.; \$600,000, 80x130 ft., 70,500 sq. ft. office space, 3 high-speed elevators, circulating ice water; 3 floors for physicians and dentists; separate bids for plumbing, heating, elect. wiring and elevators; N. W. Overstreet, Archt., Miss. Fire Bldg.; foundation and steel work contracts let. 2-21

Miss., Jackson—Merchants Bank and Trust Co., R. E. Kennington, Chmn., Bd. of Directors, plans to let contract about April 15 for 15-story bank and office building, Capitol and Lamar Sts.; may raise to 17 stories; about \$1,000,000, 43x108 ft.; additional 30-ft. unit later; Wyatt C. Hedrick, Inc., Archt., First Natl. Bank Bldg., Fort Worth, Texas. 2-14

Miss., Jackson—Pearl Realty Co., E. G. Flowers, Pres., 1305 W. Capital St., very soon call for bids for 18-story office bldg., Roach and Pearl Sts.; \$1,000,000, brick, rein. conc. and terra cotta, 45x128 ft., about 56,000 sq. ft. rental space; C. H. Lindsley, Archt., Lamar Life Bldg., Jackson; Gardner & Howe, Struct. Engrs., Porter Bldg., Memphis, Tenn.

Mo., Jefferson City—Dr. W. B. Dallas remodel and erect addition to warehouse, Madison St.; convert for offices.

Mo., St. Louis—Western States Assurance Co. remodel and erect addition to bldg.; brick, 2 stories and basement, 36x51 ft.; August Schmidt, Archt., Wainwright Bldg.; bids in.

Mo., St. Louis—Builders' Investment Co. organized with W. H. Bixby, of G. H. Walker & Co., bond brokers, Walter J. Knight, Pres., W. J. Knight & Co., Engrs., Winwright Bldg., W. Lyle Campbell, 2nd Vice-Pres., Selden-Breck Construction Co., Fullerton Bldg., and others, as members; reported, has preliminary plans drawn by Manske & Bartling, Archts., 4522 Olive St., for office building, downtown section; 35 stories; cost, with site, \$6,500,000.

S. C., Fairfax—South Carolina Packing Corp., Loan and Exch. Bank Bldg., plans office building, connection with factory construction.

Tenn., Columbia—Mutual Benefit Bank, J. L. Hutton, Pres., remodel bank.

Tenn., Jackson—National Bank of Commerce plans bank building; 104x54 ft., probably brick.

Tex., Port Arthur—First National Bank, D. P. Sheeks, Pres., erect 2-story and mezzanine bank building, site present structure, Procter St. and Austin Ave.; 50x140 ft.

Tex., San Antonio—J. M. Nix, 205 E. Travis St., has low bid at \$830,000 from J. P. Haynes, Moore Bldg., San Antonio, for 18-story office building and garage, Navarro and College Sts., with \$40,112 to be added for 2 additional stories if decided upon; low bid at \$43,150 from Graham & Collins Electric Co., 306 W. Commerce St., for elect. work; at \$10,000 from Texas Automatic Sprinkler Co., Santa Fe Bldg., Dallas, for sprinkler system; at \$84,000 from Kirkwood & Wharton, 456 Main St., for plumbing, and at \$37,400 for heating; at \$88,000 from Martin Wright, 104 Ellsmere St., for elevators; Henry T. Phelps, Archt., Hicks Bldg.; Beretta-Stiles Co., Inc., Const. Engrs., National Bank of Commerce Bldg., all San Antonio. 2-14

## Churches

Ala., Bessemer—First Methodist Church, G. D. Goodrow, Chmn., Bldg. Comm., having plans drawn by R. H. Hunt Co., James Bldg., Chattanooga, Tenn., for \$150,000 building to replace burned structure. 1-10

Ark., North Little Rock—Gardner Memorial Methodist Church considers erecting building. Address The Pastor.

Miss., Columbus—First Baptist Church, Rev. H. M. Pippin, Asst. Pastor, having plans completed by R. H. Hunt Co., James Bldg., Chattanooga, Tenn., for \$100,000 Sunday school; brick, stone trim, 3 stories, rein. conc. foundations.

Mo., St. Joseph—Christ Church, Seventh and Francis Sts., Rev. C. Hely Molony, Rector, plans to remodel undercroft and renovate church; Eugene Meier, Archt., Lincoln Bldg.; does not plan \$175,000 building, Seventh and Robidoux Sts. 3-14

Mo., St. Louis—Grand Ave. M. E. Church plans \$100,000 bldg., Grace and Fairview Aves. Address The Pastor.

Mo., University City, St. Louis—Sutter Ave. Presbyterian Church erect brick Sunday school addition; 1 and 2 stories, 20x60 ft., 16x34 ft. and 14x24 ft., wood floors, slate and tar and gravel roof, steam heat; Hoerner, Raum & Froese, Archts., 3605 Laclede St.; bids in.

Mo., Walnut Grove—Baptist Church start work in few days on \$10,000 building. Address The Pastor.

## BUILDING NEWS

### BUILDINGS PROPOSED

#### Association and Fraternal

La., Plaquemine—Plaquemine Council, K. of C., received bids March 21 for rein. conc., brick and stone trim lodge and dance hall bldg.; \$15,000, built-up comp. and tile roof, 2 stories, 34x117 ft.; Wm. R. Burk, Archt., Balter Bldg., New Orleans. 1-10

Mo., Springfield—Elks Club plans \$185,000 clubhouse; 9 stories.

N. C., Farmville—Major Benjamin May Chapter of Daughters of American Revolution will erect chapter house; log-cabin design.

Tenn., Chattanooga—Young Men's Christian Assn. open bids latter part of April for \$160,000 industrial branch, 16th St. and Mitchell Ave.; rein. conc. frame, stucco and tile, 4 stories and basement, 87x125 ft., conc. floors and foundation, tile roof; Clarence T. Jones, Archt., James Bldg.; plans ready in about 10 days. Address Industrial Y. M. C. A. Bldg. Comm., F. C. Bickers, Chmn. 3-14

Tenn., Memphis—American Legion, W. Percy McDonald, Commdr., has appropriation from Legislature of \$125,000 for memorial building.

Tex., Fort Worth—Masonic Home and School, Tom Fletcher, Supt., erect \$80,000 school and recreation bldg.; fireproof, brick and stone, 1 story and basement, 172x160 ft., maple gymnasium floors, metal lath; W. G. Clarkson & Co., Archts., First Natl. Bk. Bldg.; plans about ready.

Tex., San Antonio—C. Spangler Lodge No. 52, Brotherhood of Railway Trainmen of Southern Pacific Lines, F. E. Alsbury, member, 816 Mittman St., erect brick, steel and rein. conc. temple, New Braunfels and Canton Sts.; 3 stories, about 75x70 ft., wood floors; Beverly W. Spillman & Beverly W. Spillman, Jr., Archts.-Engrs., Alamo Bank Bldg.; bids in.

#### Bank and Office

Ala., Mobile—First National Bank receives bids March 22 for 6-story addition to and remodeling of present banking quarters; brick, stone trim, about 150 offices, elevator; Geo. B. Rogers, Archt., Van Antwerp Bldg., Mobile; St. Louis Bank Building & Equipment Co., 900 Sidney St., St. Louis, Mo., designing bank and vault fixtures; following contractors estimating: Owen Construction Co., Inc., 104 S. Lawrence St.; Alabama Engineering & Construction Co.; R. E. Sunberg, Construction Co., 150 N. Water St., all Mobile; Arthur F. Perry, Jr., Bisbee Bldg.; Estes-Jacobs Co., both Jacksonville, Fla.; Doullut & Ewin, Inc., Queen & Crescent Bldg.; W. Horace Williams, Co., Inc., 833 Howard Ave.; O. M. Gwin Construction Co., Union Indemnity Bldg., all New Orleans, La.; Wessell Construction Co., 388 N. Front St., Memphis, Tenn. 2-21

Ala., Montgomery—Dr. Geo. Blue, Bell Bldg., and others, consider erecting \$300,000 office building.

D. C., Washington—Munsey Trust Co. has permit to rearrange stairways, install door and windows; \$10,000.

D. C., Washington—American Pharmaceutical Assn., Dr. H. A. B. Dunning, Chmn., Site and Plans committees, Chase and Charles Sts.; Dr. E. F. Kelly, 10 W. Chase St., Sec. of Assn., both Baltimore, Md., having tentative plans drawn by John Russell Pope, Archt., 542 Fifth Ave., New York, for \$500,000 headquarters bldg., B St. near 22nd St., N. W. 3-15-28

Fla., Tampa—W. D. Davis, 116½ Lafayette St., remodel old Weedon Bldg. and convert into office building; Kellogg & Martin, Archts., 516½ Franklin St.

Miss., Jackson—Plaza Investment Co., J. B. Stirling, Pres., 600 N. State St., re-

N. C., Asheville—Ora St. Presbyterian Church, John W. Little, Chmn., Bd. of Deacons, considers erecting addition.

N. C., Wadesboro—Calvary P. E. Church, K. M. Hardison, Chmn., Bldg. Comm., erect brick parish house; razing present structure.

Okla., Cushing—Church of God, Rev. A. E. Ford, Pastor, care Church of God, Newkirk, has completed plans for tabernacle; frame, seat about 500.

Okla., Wewoka—Church of Christ, Rev. Tom Phillips, Pastor, erect \$40,000 building.

Okla., Wyandotte—Baptist Church, Paul Holmes, Chmn. Bldg. Comm., erect church; stone, 66x40 ft.; Jack Jones, Archt.

Tenn., Brownsville—First Baptist Church erect \$35,000 auditorium; seat 800. Address The Pastor.

Tex., Houston—Clements Memorial Church erect \$12,000 building, 109 Parkview; brick.

Tex., San Angelo—Chadbourne St. Methodist Church, Rev. Mims Jackson, Pastor, accepted plans for \$50,000 bldg.; Gothic type, brick. 12-20

Tex., Temple—First Presbyterian Church have plans completed by Chas. P. Jones & Co., Archts., Houston, in about 2 weeks for \$30,000 bldg., First and Barton Sts.; brick, stone trim, asbestos shingle roof. 3-7

Va., Charlottesville—Christian Science Church erect building, 17th St. and Grady Ave.

### City and County

Ark., Magnolia—Columbia County voted \$55,000 bonds to repair courthouse and erect jail; conc. and steel, 2 stories, conc. and pine floors, comp. built-up roof; Arthur A. Brown, Archt., Mercantile Bk. Bldg., Dallas, Tex. (Lately incorrectly noted to vote April 9.) 8-14

Ark., Rogers—City, J. H. Rude, Mayor, probably ready for bids on fireproof city hall about Apr. 1; \$30,000, brick and conc. 2 stories and basement, rein. conc. floors, conc. foundation, comp. built-up roof; A. O. Clark, Archt. 11-29

Fla., Jasper—Hamilton County Bd. of Commrs., reported, plans courthouse; Mark & Sheftall, Archts., 210 Clark Bldg., Jacksonville. 11-29

La., New Orleans—City erect shelter pavilion and comfort station, City Park; 1 story, tile roof; Weiss, Dreyfous & Seifert, Archts., Maison Blanche Bldg.; bids in.

Miss., Laurel—Jones County Bd. of Supvrs. will sell bonds for \$80,000 poorhouse.

Mo., Jefferson City—Cole County Bd. of Commrs. considers calling election on jail bonds.

Mo., St. Louis—Board of Public Service, E. R. Kinsey, Pres., plans bird house, Forest Park Zoo; accommodation 2500.

Okla., Goltry—City, G. R. Newby, Clk., voted \$15,000 bonds for brick municipal bldg.; Roy W. Shaw, Archt., Enid. 2-14

Tex., Beaumont—Jefferson County Bd. of Commrs., B. B. Johnson, County Judge, considers erecting third story to jail annex for criminal district court.

Tex., Beaumont—City, J. W. Anderson, Mgr., plans voting in Spring on \$25,000 bonds for improvements to city auditorium and \$65,000 bonds for fire stations.

Tex., Rosebud—City Council receives bids March 26 for city hall; plans from offices City Sec. and Birch D. Easterwood, Archt., Liberty Natl. Bank Bldg., Waco.

Tex., San Antonio—City, C. M. Chambers, Mayor, receives bids March 25 for rest room bldg., Main Plaza; \$15,000; stone and rein. conc., 1 story; Chas. Boelhaue, Archt., Aztec Bldg. 2-21

Tex., San Antonio—City, C. M. Chambers, Mayor, receives bids March 25 for library and auditorium for negroes, S. Hackberry St. near Center St.; face brick, hollow tile, steel truss, about 67x120 ft., conc. floors; auditorium and balcony seat about 900; Seutter & Simons, Archts., Bldrs. Exch. Bldg. 1-10

Tex., Uvalde—City, H. B. Hornby, Mayor, has completed plans for \$25,000 city hall; brick, cast stone trim, 2 stories; Will N. Noonan Co., Archt., Bldrs. Exch. Bldg., San Antonio. 12-6

W. Va., Princeton—Mercer County votes in special election May 7 on \$600,000 courthouse and jail bonds. Address County Bd. of Commrs. 12-27

### Dwellings

Ala., Birmingham—W. C. Clisby, Mountain Brooke Estates, erect brick veneer residence; 2 stories, 55x57 ft., asbestos slate roof, steam heat; J. G. Ringer, Archt., 512 Martin Bldg.; day labor.

Ala., Birmingham—R. G. Stewart, care Turner & Slater, Archts., Martin Bldg., erect native stone building, Mountain Brooke Estates; 2 stories, clay tile roof, vapor steam heat.

Ala., Birmingham—Geo. R. Crump, 1466 N. 22nd St., erect brick veneer residence, Virginia Heights; stone trim 2 stories and basement, 57x42 ft., comp. roof, hot air heat; Chas. H. McCauley, Archt., Jackson Bldg.; bids in.

Ala., Gadsden—E. A. Tarpley erect face brick veneer residence; 1 story, 6 rooms, shingle roof; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.

Ala., Sulligent—Fred Ogden call for bids about March 28 for brick veneer residence; 1 story, oak floors, tile roof; Bem Price, Archt., Comer Bldg., Birmingham.

Ark., Pine Bluff—Geo. V. Beal, 301 W. Second St., rebuild residence; \$10,000, brick veneer, 1 and 2 stories and basement, oak floors, comp. or tile roof, tile bath.

D. C., Washington—Wm. LaRoe, Jr., has permit for stone and brick residence, 4600 Linnear Ave.; 3 stories; \$40,000.

Fla., Bartow—E. R. James, Archt., 590 Floral Ave., drawing plans for \$20,000 dwelling, 590 Floral Ave.; brick, 2 stories.

Fla., Miami—Wendle Andrews, care Nieder & Seiler, Archts., Calumet Bldg., erect \$20,000 residence, Palm Island; hollow tile and coral rock, 1 story, tile floors and roof; drawing sketches.

Fla., Miami—L. H. Johnson, P. O. Box 5484, Miami, erect brick veneer residence; 1 story, 6 rooms, pine and oak floors, comp. roof; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.

Fla., Miami Beach—Agnes C. Gano has permit for \$20,000 residence, 4751 N. Bay Road.

Fla., Miami Beach—K. Gene Venetos, Brooklyn, N. Y., erect conc. block residence, 40th St. near Collins St.; 1 story, 30x60 ft., tile and wood floors, tile roof; C. LeRoy Kimperts, Archt., Coconut Grove.

Fla., Miami Beach—J. W. Fritz Gerald erect conc. block residence, Pinetree Drive near 52nd St.; 2 stories, 64x121 ft., tile and wood floors, tile roof; Robt. Taylor, 412-16 Espanola Way, Archt.

Fla., St. Petersburg—Dale Addington, 73 Seventeenth St., N. E., Atlanta, Ga., will not erect \$60,000 residence as lately reported. 3-14

Fla., Winter Haven—E. W. Banckhan erect \$13,000 residence, Eloise Woods sub-division; stucco, 2 stories, 60x50 ft.; Gibbs & Kramer, Archts., Levy Bldg.; drawing plans.

Ga., Atlanta—Carlton Whitehead, Healey Bldg., erect brick veneer residence; 1 story, 6 rooms and bath, hardwood floors, comp. roof.

Ga., Atlanta—J. H. Taylor, erect residence, Haynes Manor; Chas. H. Hopson, Archt., Healey Bldg.; bids in.

Ga., Atlanta—Mrs. Edith H. Clark erect residence, Haynes Manor; Chas. H. Hopson, Archt., Healey Bldg.; bids in.

Ga., Atlanta—W. D. Beatie, 101 Marietta St. N. W., plans number dwellings, Sisson Ave., connection with development.

Ga., Atlanta—Dr. L. G. Baggett, 478 Peachtree St. N. E., erect residence, Dickey sub-division.

Ga., Savannah—Wm. I. Bishop, Montreal, Canada, present address Savannah-Oglethorpe Hotel, reported, plans residence, Wilmington Island.

Ga., Shannon—Southern Brighton Mills, T. J. Kelly, Vice-Pres., plan 125 additional operatives' dwellings.

La., Monroe—T. O. Bancroft, 1402 N. Second St., erect \$20,000 residence, St. John Drive near Orange St.; brick veneer, 2 stories, 8 rooms.

Md., Baltimore—Mueller Construction Co., Gunther Bldg., erect 12 dwellings, 3700 block Ellerslie Ave.; \$40,000.

Md., Baltimore—Frederick E. Schulte, 3600 Dillon St., erect 10 dwellings, 600 block Fagley St.; \$22,000.

Miss., Collins—John Dent erect residence; face brick veneer, 1½ stories, pine, oak and tile floors, shingle roof; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.

Miss., Jackson—Sam Gordon erect 3 brick veneer dwellings, Central St. near Roseneath St.; \$10,000.

Miss., Jackson—L. L. Mayes, Peachtree and Francis Ave., and associates, erect 50 dwellings, Belhaven Heights; \$350,000.

Miss., Meridian—Arthur Rosenbaum, care Meridian Candy Co., 807 22nd Ave., erect 2-story and basement residence; shingle roof, tile baths, hot air heat; F. A. Fort, Archt., 1309 Twenty-fourth Ave.

Miss., Starkville—W. D. Rankin erect brick and field stone veneer residence; 1 story, 6 rooms, pine and oak floors, shingle roof; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.

Miss., Tylertown—G. W. Sumrall erect brick residence; 1 story, 7 rooms, pine, oak and tile floors, 2 baths, rigid asbestos shingle roof; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.

Mo., Clayton, St. Louis—Theo. Glauert 7224 St. Andrews Ave., erect 2 brick dwellings, Charlack St.; 1 story and basement, 28 x 39 ft., hardwood floors, tile baths, comp. shingle roofs, hot air heat; \$10,000; work by sub-contract.

Mo., Columbia—Sam Jordan erect \$10,000 residence; hollow tile, 2 stories, 30 x 32 ft., oak floors, slate shingle roof, steam heat; Bill & Traber, Archts., 1008 E. Broadway.

Mo., Kansas City—R. L. Falkenberg & Co., 63rd and Brookside Blvd., erect Colonial dwelling, 58th St. Terrace and Ward Pkwy.

Mo., St. Louis—Geo. F. Gaertner, Jr., 3521 N. Grand Blvd., erect brick residence, Purdue Ave.; 2 stories and basement, 51x55 ft., hardwood floors, tile bath, comp. roof, vapor heat; Schulte & Tarling, Archts., Grand-St. Louis Bldg.; bids in.

Mo., St. Louis—Caryle Linn, 5286 Waterman St., erect \$10,000 residence, Polo St.; Country Club Place; brick, 40x32 ft.; D. S. Corey, Contr., 8342 Flora St.

Mo., University City, St. Louis—Archib. B. Klein, 7112 Woodrow St., erect \$16,000 residence, Vassar Ave.; 2 stories and basement, 35x40 ft., hardwood floors, tile bath, slate roof, hot water heat; J. Warren Teasdale, Archt., First Natl. Life Bldg.

N. C., Asheville—Geo. H. Wilson, Hall St., erect \$20,000 residence; brick, 2 stories and basement; Henry I. Gaines, Archt., Flat Iron Bldg.

N. C., Charlotte—Meyers Park Presbyterian Church erect \$18,000 manse; 2 stories and basement; M. E. Boyer, Archt., 1516 E. Fourth St.

N. C., Durham—H. C. King, Rigsbee Ave., erect \$12,000 duplex, Roxboro St.; 10 rooms.

N. C., Gastonia—Manville Jenckes Co. let contract to W. H. Hand & Son, Belmont, for 17 operatives' cottages; frame, 1 story, 30x42 ft., No. 1 pine floors, brick foundations, Winthrop tapered shingle roofs; H. M. Kelvie, Engr., 1005 W. Franklin Ave., Gastonia; material on ground. 3-14

N. C., Reidsville—Frank B. Simpson, Archt., 110 E. Lane St., drew plans for \$15,000 dwelling; stone, 2 stories and basement.

Okla., Tulsa—John A. Haver, Cosden Bldg., reported, plans residence, 1500 block E. 31st St.

Okla., Tulsa—Thilder Anderson erect \$11,000 residence, 1148 S. Norfolk Ave.

Okla., Tulsa—F. L. Mannas, 2227 S. Terwilliger Blvd., erect 2 dwellings, 1516 E. 26th St. and 2267 S. Troost Ave.; \$21,500.

Okla., Tulsa—Helen M. Burns erect \$12,500 residence, 1308 E. 26th Place.

S. C., Spartanburg—Fairforest Finishing Co. organized with M. R. Reeves, 55 Leonard St., New York, as president; erect 50 dwellings, connection with plant construction.

Tenn., Memphis—Erskin W. Levy, 72 N. Evergreen St., erect brick veneer residence, Hein Park; 1 story and basement, oak floors, tile baths, steam heat; Estes W. Mann, Archt., Cotton Exch. Bldg.

Tenn., Memphis—C. G. Lovett, probably call for bids in Spring for brick veneer residence; \$10,000, 1-story and basement, oak floors, tile bath, hot water heat; Polk W. Agee, Archt., both Fidelity Bk. Bldg.

Tenn., Memphis—Sam Friedman, 1989 Madison Ave., erect brick veneer residence, Hein Park; stone trim, 2 stories and basement, 40x35 ft., hot water heat; Polk W. Agee, Archt., Fidelity Bank Bldg.; ready for bids.

Tenn., Memphis—M. G. South, First Natl. Bk. Bldg., erect 2 brick veneer dwellings; 1 story and basement, oak floors, tile baths, comp. shingle roofs; Polk W. Agee, Archt., Fidelity Bk. Bldg.; drawing plans.

Tenn., Nashville—Charlotte Ave. Church of Christ purchased 10-acre tract, erect cottages for widows; 3 to start in Spring, others as needed.

Tex., Beaumont—L. Perl, 1350 Broadway, erect \$12,000 residence, Averill subdivision.

Tex., Beeville—Jack Forgason plans residence.

Tex., Dallas—Joe L. Darnaby, 3414 Spence St., erect number dwellings, Oak Lawn Heights.



Tex., Dallas—Hollywood Co., Athletic Bldg., erect 50 brick dwellings, Hollywood, during 1929.

Tex., Fort Worth—Carb Building Co., Wheat Bldg., erect \$10,000 brick veneer dwelling, 2500 block Cockrell St.

Tex., Fort Worth—D. O. Modlin, 1708 Tremont St., erect \$12,500 brick veneer residence, 1708 Tremont St.

Tex., Fort Worth—W. M. Myrick erect \$15,000 brick veneer residence, 1506 Elizabeth St.

Tex., Fort Worth—Bundock Building Co. erect 3 brick veneer dwellings, 3009-13-17 Ryan St.; \$15,000.

Tex., Houston—Howard G. Fields, 6400 Harrisburg Rd., erect 2 brick veneer duplexes, Bonnie Brae St.; 6 rooms; \$11,000.

Tex., Houston—W. M. Cleaves, Post-Dispatch Bldg., erect \$10,000 residence, 1820 Dunston Rd.; brick veneer, 7 rooms.

Tex., Houston—Herschel M. Duncan, Pres., Duncan Coffee Co., Carr and Conti Sts., plans Colonial residence, Chevy Chase Drive, River Oaks.

Tex., Houston—Southside Development Co., J. J. Baker, 2402 Cleburne St., and Joe R. Steele, organizers, Southside Community Center, plan number dwellings, Southside Place.

Tex., Houston—Dr. Robt. L. Cox, Esper-son Bldg., plans residence, River Oaks.

Tex., Houston—J. L. Sadler, 1200 Anita St., erect \$10,000 residence, 2210 Riverside Drive; brick veneer, 10 rooms.

Tex., Houston—Geo. W. Batten Co., 1519 Taft St., erect 24 dwellings, Liberty Heights and Denver additions; \$100,000.

Tex., Houston—J. M. Brownlee, 1202 Calhoun St., erect \$12,250 house and garage, 2103 Southmore Addition; brick veneer, 2 stories.

Tex., Houston—H. L. Mott, Warwick Hotel Apt., erect \$25,000 house and garage, 2513 MacGregor St.; brick veneer, 2 stories.

Tex., Waco—Cecil Shear erect \$12,000 dwelling, 2524 Maple St.; brick, 2 stories.

Va., Gore—Eastern Silica and Chemical Co., Winchester, John F. Penrose, Pres., erect number employees' dwellings at plant.

Va., Petersburg—Washington Street M. E. Church erect parsonage, Westover Ave., Walnut Hill. Address The Pastor.

### Government and State

Ala., Anniston—Constructing Quartermaster, O. E. Davis, First Lieut., Camp McClellan, receives bids April 13 for 3 units of Infantry Battalion Barracks; \$300,000; tile and stucco, 3 stories. Mission tile roof; plans from Constr. Quartermaster. 12-20

Ark., Little Rock—State General Assembly passed bill authorizing construction of new Hospital for Nervous Diseases; bill provides for \$3,250,000 for site and bldgs. for above and also for additional bldgs. at State Tuberculosis Sanatorium, Booneville. Address Senator DuVal Perkins, Warren.

Fla., Jacksonville—Additional contractors estimating on post office changes, bids March 26 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C.; Universal Construction Co., Fort Wayne, Ind.; R. H. Pearce, P. O. Box 579, Whitehall, N. Y.; Kellogg & Anderson, 1257 E. 12th St., Des Moines, Iowa; O. P. Woodcock, Duvall Bldg., Neal D. Evans, Adair Bldg.; Johnson Finance & Construction Co., Atlantic Bk. Bldg., all Jacksonville. 3-14

Md., Fort George G. Meade—Constructing Quartermaster receives bids April 25 for Post Hospital; plans from Constructing Quartermaster.

Okla., Claremore—Interior Dept., Office of Indian Affairs, Washington, D. C., Chas. H. Burke, Commr., receives bids April 4 for hospital, sewer system and employees' quarters; plans from United States Indian Warehouses, Chicago, Ill., St. Louis, Mo., and San Francisco, Calif.; from Bldrs. Exchange, St. Paul, Minn.; from office Supt. of Five Civilized Tribes, Muskogee, Okla., or office Commr. of Indian Affairs; further information from last two named.

Tenn., Nashville—State, Capt. Richard H. Lyle, Commr. of State Institutions, plans \$40,000 women's building, State Penitentiary; brick, steel and conc., 2 stories and basement.

Tenn., Paris—Following contractors estimating on remodeling and extension of post office, bids April 5 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C.; Landes Construction Co., Kleetman Bldg., Charleston, W. Va.; Jones Bros. Co., Box 338, Wilson, N. C.; Hiram Lloyd Building and Construction Co., Synd. Tr. Bldg.; A. M. Lundberg, Rwy. Exch. Bldg., both St. Louis, Mo.; A. C. Samford, Shepherd Bldg.; Algernon Blair, 11 S. Lawrence

St., both Montgomery, Ala.; F. J. Ozanne & Co., Empire Bldg., Memphis, Tenn.; Chas. Weitz' Sons, 713 Mulberry St.; Kellogg & Anderson, 1257 E. 12th St., both Des Moines, Iowa; W. E. Dalton, 3319 Helen Ave., Hannibal, Mo.; Smythe & Co., 1416 F St., N. W., Washington. 3-14

Tex., Fort Bliss, El Paso—Constructing Quartermaster, Fort Bliss, has low bid at \$258,475 from Hayward & Betzel for 50 N. C. O. quarters; \$300,000. 2-14

W. Va., Alderson—Treasury Dept., Jas. A. Wetmore, Acting Supervising Archt., Washington, D. C., receives bids April 11 for constructing extension to dining room and kitchen of administration buildings, new porches to cottages, screening of porches, etc., and for constructing 2 hollow tile silos for Federal Industrial Institution for Women; following contractors estimating: W. C. Spratt, Fredericksburg, Va.; Pete Wallace, Oak Hill, W. Va.; Thos. W. Cissell, Bethlehem, Pa.; Smythe & Co., 1416 F St., N. W., Washington, D. C.; W. E. Wood, Alderson; McCay & Kirtland, Equitable Bldg.; McCall & Watts, 5112 Belmont Ave., both Baltimore, Md.; Theriault Contracting Co., 534 E. Johnson St., Philadelphia, Pa.; Newport Contracting & Engineering Co., Silsby Bldg., Newport News, Va.; Echols Construction Co., Cass, W. Va.; S. A. Gilmer, Lewisburg, W. Va.; F. H. Major, Clifton Forge, Va. 2-14

### Hospitals, Sanitariums, Etc.

Ga., Savannah—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., rejected bids for officers' quarters, U. S. Marine Hospital; to call for new bids. 3-14

La., Bastrop—City Council plans election on bonds for municipal hospital; probably \$50,000.

La., New Orleans—Charity Hospital receives bids until April 2 for 14-room addition to Vincent Memorial Home for Infectious Diseases; \$30,000, comp. roof; Favrot & Livaudais, Ltd., Archts., Hibernia Bldg.; following contractors estimating: A. M. Fromherz; Geary-Oakes Co., both Q. & C. Bldg.; O. M. Gwin Construction Co., Union Indemnity Bldg.; Lionel F. Favrot, Louisiana Bldg.; Gervais F. Favrot, Balter Bldg.; J. A. Petty & Sons, Inc., Godchaux Bldg.; Chas. Gilbert; Thos. H. Brockman, both Canal Bank Bldg.; Reilly-Ruckstuhl, Inc., 423 Carondelet St.; Wm. Wallace, Pere Marquette Bldg.; A. Garrett, Maritime Bldg.; J. V. & R. T. Burkes, N. O. Bank Bldg. (Lately noted under Dwellings.) 3-14

Miss., Natchez—State Bldg. Comsn., State Capitol, Jackson, rejected bids for alterations and improvements, Natchez Charity Hospital; Shaw & Woleben, Archts., Gulfport. 2-21

N. C., Henderson—Jubilee Hospital for Negroes has low bid for \$14,000 addition from Byrd Bros. & Shaw, Lillington; Eric C. Flannagan, Archt., Henderson. 12-13

Okla., Oklahoma City—Hubbard Hospital, 1501 E. 11th St., Dr. John C. Hubbard, owner, erect addition.

S. C., Columbia—South Carolina Grand Lodge, A. F. & A. M., Frank Hart, member, Columbia, raise \$50,000 for infirmary unit, State Park Tuberculosis sanatorium.

Tenn., Nashville—Chamber of Commerce, DeWitt Carter, Chmn., Hospital Comm., interested in \$500,000 bond election to remodel and enlarge Nashville General Hospital.

Tex., Dallas—Dallas Baby Camp & Hospital, Miss May Smith, Supt., erect \$100,000 fireproof hospital, Maple Ave. and Turtle Creek Blvd., gift of T. L. Bradford.

Va., Richmond—Henry-Franklin Building Corp., Dr. A. L. Herring, 2620 Grove Ave., erect \$250,000 hospital, Henry and Franklin Sts.; fireproof with steel framework faced with brick, 6 stories; Carneal, Johnson & Wright, Archts., Electric Bldg. 5-23-28

### Hotels and Apartments

D. C., Washington—David A. Baer and Robert O. Scholz, both Edmonds Bldg., have permit for \$225,000, 8-story, brick and tile apartment, \$15 Eighteenth St. N. W.

Fla., Jacksonville—Louis Domb soon let contract for brick and tile, 10-apartment, Stockton and Forbes Sts.; Mark & Sheffall, Archts., 210 Clark Bldg.

Ky., Fort Thomas, Newport—Daniel Boone Lodge Co., E. W. Cooke, Pres., expend \$200,000 for converting stone buildings at Camp Nelson into resort hotel.

Ky., Louisville—J. U. Schickli & Bro., 1300 W. Oak St., erect \$18,000 brick veneer apartment, 1843 Greenwood Ave.

La., Monroe—Lewis M. Kelly, Shreveport, erect \$12,000, 2-story, brick veneer apartment, N. Third St. and Auburn Ave.

Mo., Clinton—Bush Hotel Corp., Irving Bush of Bush Hatcheries, plans 6-story, 80-room hotel.

N. C., Greensboro—T. A. Armstrong, W. Market St., considering tentative plans by Harry Barton, Jefferson Bldg., for 6-apartment addition to Powhatan Apartments, W. Market and M. Wilson Sts.

Okla., Sapulpa—J. R. Strickler, Enid and Jesse H. Harp, Miami, remodel Sapulpa Hotel.

Okla., Shawnee—D. P. Sparks erect 100x150 ft., 24-apartment, Broadway and Highland St.

Okla., Tulsa—Waldo T. Freeman, Bliss Bldg., has permit for \$20,000 apartment, 1621 E. 12th St.

Tenn., Memphis—L. C. Walker, 975 Forest St., erect \$15,000, 2-story and basement, brick veneer, 4-apartment; comp. shingle roof, oak floors, hot water heat, stone trim.

Tex., Dallas—W. H. Cathey has permit for \$15,000 brick veneer, 8-apartment, 4149-51 Prescott St.

Tex., Dallas—L. L. Culpepper, 1122 N. Zangs St., has permits for four 10-room, brick veneer apartments, 6157-9 and 6161-3 Richmond St.; \$12,000.

Tex., Galveston—Jake Davidson, 2928 J St., erect 2-story, 93x50-ft., brick veneer, rein. conc. struct., steel stone apartment, Eighth St. and Broadway; Andrew Fraser, Archt., American Natl. Insurance Bldg.; bids in. 1-3

Tex., Houston—W. F. Castle has permit for \$10,000, 2-story, brick veneer, 4-apartment, 1562 Danville St.

Tex., Houston—Fay West, 2315 Stanford St., erect several apartments and stores fronting about 550 ft. on Taft St. near W. Dallas St.; \$125,000; Spanish design.

Tex., La Porte—P. Nicoletti, 518 Orleans St., Beaumont, ready for bids about June 1 for \$22,500, 2-story, 30x75-ft. building for stores and 27-room hotel; wood and conc. floors, built-up tar and gravel roof; J. C. Beck, Archt. See Want Section—Building Material and Equipment.

Tex., Luling—Thomas Wilson, Jr., erect 15 to 18-room addition to Wilson Hotel.

### Miscellaneous

D. C., Washington—Victor B. Deyber, Treas., Episcopal Church Home, 3315 Wisconsin Ave., N. W., advises Home does not contemplate erection of building. 3-14

Fla., Miami Beach—Wm. Taradash, 1461 Washington Ave., erect \$15,000 restaurant and patio; Alexander Lewis, Archt.; bids in. 2-28

Fla., St. Petersburg—Women's Club of St. Petersburg, Mrs. Wendell Slaton, Pres., having plans prepared by Jonesburg & Wakeling, Times Bldg., for \$25,000, 1½-story, 104x96 ft., stucco and hollow tile clubhouse. 11-22

Fla., Tampa—B. L. Hammer promoting erection tourist community center.

Miss., Gulfport—Gulfport Rotary Club, J. M. Ferguson, Pres., plans swimming pool, 35x90 ft., and gymnasium; \$50,000; plans by J. W. Billingsley, Interstate Bldg., New Orleans.

Miss., Vicksburg—Community Golf Club soon call for bids for \$12,000, 1-story, 65x73 ft., frame clubhouse; asbestos roof, hot air heat; W. A. Stanton, Archt., First Natl. Bk. Bldg.

Mo., Clayton, St. Louis—Countryside Properties, Inc., W. B. Shelp, Jr., Pres., plans country clubhouse on Geyser road.

Mo., Kansas City—Florence Home for Colored Girls, Mrs. Elizabeth Bruce, Pres., 2446 Michigan St., erect \$35,000, 3-story, 25-room building, 23rd and Campbell Sts.

Tenn., Nashville—Junior League of Nashville, Inc., Monroe St., erect 2-story, 116x52 ft., brick building, Cathey and Craighead Aves.; Donald W. Southgate, Archt., Nashville Trust Bldg.; bids in.

Tex., Houston—Mrs. C. E. Peters, 6913 Capitol St., erect \$20,000, 2-story, 46x76 ft., brick mission house; Edward Wilkinson, Archt.

Tex., Point Isabel—Point Isabel Development Co. has low bid at \$33,100 from T. W. Neck, Brownsville, for box ranch clubhouse, 15 mi. from Point Isabel; 1-story, 32x62 ft., with two wings 13x320 ft., brick, built-up roof, wood floors; Wm. D. Van Sicken, Archt.-Engr., 9 Maltby Bldg., Brownsville. See Want Section—Building Material and Equipment. 3-14

Va., Berryville—W. A. Bradford, Sec. Treas., corporation promoting erection memorial community center.

Va., Virginia Beach—Clifford Hosler and Michael Glennan, Norfolk, promoting organization of country-bathing club; plans \$35,000, 2-story and basement, 100x75 ft., stucco

clubhouse; Philip B. Moser, Archt., Law Bldg., Norfolk.

### Railway Stations, Sheds, Etc.

La., Winnfield—Tremont and Gulf Railway Co., A. L. Smith, Supt., soon ready for bids for rebuilding \$10,000, 1-story, frame and brick office and depot; Herman J. Duncan, Archt., 120 Murray St., Alexandria.

Okla., Oklahoma City—St. Louis and San Francisco Rwy., F. G. Jonah, Engr., soon let contract for brick and conc. freight depot; R. C. Stevens, Archt., St. Louis.

### Schools

Ala., Auburn—Sigma Phi Epsilon Fraternity, Alabama Polytechnic Institute, Hubert C. Drake, Chmn., Bldg. Comm., Birmingham, erect \$35,000, 2-story and basement, brick veneer, cast stone trim frat house; comp. roof, Georgian Colonial type.

Ala., Birmingham—Bd. of Education, D. E. McKinley, Bus. Mgr., receives separate bids April 12 for first unit of Southside High School as follows: General work, plumbing, sewerage and gas fitting, heating and ventilation, electric work; plans from Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham; Wm. B. Ittner, Const. Archt., Bd. of Education Bldg., St. Louis. 12-8

Ala., Evergreen—State Bd. of Education, Dr. R. E. Tidwell, Supt., Montgomery, erect \$30,000 State Secondary Agricultural School; bids in March 16.

Ala., Tusculum—City, I. L. Hay, Clk., reported, votes March 26 on \$40,000 bonds. Lately noted to vote March 18. 2-28

Ark., Caraway—School Bd. receives bids April for rebuilding high school recently destroyed by fire; E. J. Wolpert, Archt., Jonesboro.

D. C., Washington—District Commrs., Room 509 District Bldg., plans Reno Junior High School, 13th, Fessenden and Howard Sts.; first unit to contain 25 classrooms and 2 assembly halls; A. L. Harris, Municipal Archt.

D. C., Washington—District Commrs., Room 509 District Bldg., have low bid at \$139,000 from C. Harrison Smith, 1518 K St., N. W., for 8-classroom assembly hall and gymnasium addition to Burrville School; A. L. Harris, Municipal Archt. 2-28

D. C., Washington—District Commrs., 509 District Bldg., ready for bids in about 2 months for Business High School, 13th and Upshur Sts., N. W.; \$1,500,000; A. L. Harris, Municipal Archt.

Fla., Chiefland—Levy County Bd. of Public Instruction, Bronson, erect \$25,000, 1 or 2-story, brick school; Biggers & Glass, Archts., 302½ Franklin St., Tampa.

Fla., Tampa—Kellogg & Martin, 516½ Franklin St., selected to prepare plans for \$12,000 brick and steel parochial school.

Fla., Tallahassee—Leon County Bd. of Public Instruction, F. W. Hartsfield, Supt., erect \$75,000, 2-story and basement, brick grammar school; comp. roof; Edwards & Sayward, Archts., 101 Marietta Bldg., Atlanta, Ga.

Fla., Tampa—Hillsborough County Bd. of Public Instruction erect \$25,000 school in Harney School Dist.

Ga., Griffin—Bd. of Education, L. M. Lester, Sec., ready for bids for colored vocational building; brick; Wm. J. J. Chase, Archt., 140 Peachtree St., Atlanta; City votes April 4 on \$100,000 bond issue for new schools and additions. 10-18

Ga., Jefferson—Bd. of Education, M. M. Bryant, erect 1-story and basement, brick, stone trim grammar school; 8 classrooms, comp. roof, conc. and wood floors; Lockwood & Poundstone, Archts.; Edw. F. Billie, Asso. Archt., both Forsyth Bldg., Atlanta.

Ga., Macon—Bibbs County Bd. of Education rejected bids and soon call for new bids for \$100,000, 1-story and basement, 248x120-ft., rein. conc., brick and stucco Pearl Stephens School in Log Cabins Heights; Alexander Blair, Archt., Georgia Casualty Bldg.; Claude W. Shelverton, Asso. Archt., Grand Bldg. 3-14

La., Calvin—Winn Parish School Bd., D. E. Sikes, Supt., Winnfield, receives bids April 5 for \$45,000, 1-story, rein. conc., brick, stone trim elementary and high school; Herman J. Duncan, Archt., 120 Murray St., Alexandria. 3-7

La., Franklinton—Town plans vote April 2 on \$125,000 bonds for high school and repairs to present building for grade school; Frank B. Bateman, Pres., Washington Parish School Bd.; Wm. T. Nolan, Archt., Canal Bk. Bldg., New Orleans. 2-28

La., LaGrange—Lenoir County Bd. of Education erect \$11,000, brick, 6-classroom and auditorium school.

La., Opelousas—St. Landry Parish School Bd., receives bids April 10 for \$15,000, 1-story, frame auditorium; built-up comp. roof; plans from Herman J. Duncan, Archt., 120 Murray St., Alexandria.

Md., Annapolis—Navy Dept., Bureau of Yards and Docks, R. J. Potbury, Ch., Washington, D. C., has low bid at \$260,000 from W. P. Thurston Co., Inc., Richmond Trust Bldg., Richmond, Va., for rein. conc. and brick boathouse at Naval Academy. 2-28

Md., Rising Sun—Cecil County School Bd., Court House, Elkton, erect \$30,000, 1-story, 4-room school; Clyde N. & Nelson Friz, Archts., Lexington Bldg., Baltimore.

Md., Rockville—Montgomery County offered second bill asking Legislature for authority to issue \$475,000 bonds for construction and equipment of schools in various parts of county to include: Addition to Bethesda-Chevy Chase High School, \$57,000; elementary school at Chevy Chase, \$140,900; addition to East Silver Spring elementary school, \$30,000; addition to Glen Echo-Cabin John Jr. High and Elementary School, \$30,000; enlargement classrooms and assembly hall, Sherwood High and Elementary School at Sandy Spring, \$9,500; first unit of elementary school in Alta Vista section, \$30,500; building for Colesville Elementary School, \$16,500; additional rooms and equipment to Glenmont Elementary School, \$22,000; additional land for Bethesda elementary, \$26,000; additional land for Somerset elementary, \$7,000; land for elementary school in Chevy Chase section, \$20,000; land for high or elementary school to serve Woodside, Forest Glen and Four Corners communities, \$20,000; land for elementary at Four Corners, \$16,000; land for elementary school south of Wheaton, \$10,500; land for high or elementary school for Takoma Park, \$2,000; work on grounds of Takoma-Silver Spring High School, \$4,500; first bill of like amount recently introduced known as House Bill No. 65, provides for construction Bethesda-Chevy Chase High School to cost \$123,000 and various other buildings, additions and improvements.

Miss., Hattiesburg—Bd. of Education, W. I. Thames, Supt., plans several high schools and physical education building.

Miss., Jackson—City, Walter A. Scott, Mayor, voted \$350,000 school bonds. 3-7

Miss., Pascagoula—Orange Lake Consolidated School Dist. votes March 30 on \$20,000 bonds for school. Address Jackson County School Bd.

Miss., Vidalia—Bd. of School Trustees erect \$12,000, 1-story, brick or conc. block, 6-classroom school; built-up comp. roof; Vinson B. Smith, Jr., Archt., Bank of Gulfport, Gulfport.

Mo., Clayton, St. Louis—Bd. of Education, J. L. Bracken, Supt., 7500 Henderson Ave., erect \$35,000 auditorium and gymnasium addition to De Mun School, \$30,000 cafeteria and office addition to high school, \$45,000 Moorlands School; brick; Wm. B. Ittner, Archt., Bd. of Education Bldg.; bids in. 3-7

Mo., Maryville—Bd. of Education plans two ward schools, repairs to three ward schools and high school; election soon on \$185,000 bonds.

Mo., St. Joseph—Bd. of Education, F. H. Barbee, Supt., plans \$2,180,000 building program to include: Senior High School, 26th and Edmond Sts., \$600,000; Garfield-Jackson, \$250,000; Ernest-Krug, \$100,000; Webster, \$160,000; South Park, \$112,000; additions and repairs, \$502,000, to include: Humbolt, \$33,000; Washington, \$35,000; Whittier, \$50,000; McKinley, \$33,000; Lafayette, \$56,000; Bartlett, \$64,000; Hall, \$60,000; change sanitary system of schools to cost \$650,000; heating systems, \$39,950; electric wiring, \$3,600; repairs and general work, \$58,550; Wm. B. Ittner, Asso. Archt., Bd. of Education Bldg., St. Louis; Marvin Casteel, Ch. Engr. 12-6

N. C., Ayden—Pitt County and City erect \$80,000, 24-room, brick high school.

N. C., Bessemer City—Bessemer City Graded School Dist. Trustees having sketches prepared by Wm. G. Rogers, Latonia Bldg., and Louis C. Ellis, Asso. Archt., Charlotte, for \$60,000 school. 1-24

N. C., Chapel Hill—City votes April 23 on \$15,000 school bonds. Address Bd. of Education. 2-21

N. C., Greenville—Bd. of Education erect \$110,000 brick school to replace burned structure.

N. C., Morehead City—Bd. of Education having plans prepared by Atwood & Nash, Chapel Hill, for \$125,000, 2-story and basement, rein. conc., brick, stone trim elementary school; tar and gravel roof, terrazzo, tile and conc. floors. 12-20

N. C., Raleigh—North Carolina State College Alumni plans \$100,000, 115-ft. memorial tower.

N. C., Siler City—Bd. of Education erect school building.

Okla., Dewey—Dewey School Dist. plans vote on \$15,000 bonds. Address Dist. School Trustees.

Okla., Luther—Bd. of Education, J. E. Huntington, Clk., soon let contract for \$15,000, 1-story, 76x96 ft., brick high school; Hawk & Parr, Archts., First Natl. Bldg., Oklahoma City.

Okla., Tulsa—University of Tulsa, Dr. John D. Finlayson, Chancellor, erect Waite Phillips Petroleum Engineering building; \$150,000, 3 stories, Colorado sandstone, Gothic architecture; H. C. Hibbs, Archt., American Tr. Bldg., Nashville, Tenn.

S. C., Greenville—Bd. of School Trustees plans calling election on \$700,000 bonds; erect high school and addition to present structure.

Tenn., Jasper—Marion County defeated \$225,000 school bonds. 1-24

Tenn., Knoxville—Bd. of Education receives bids April 1 for 1-story, 6-classroom, brick school in Sequoyah Hills; plans from Barber & McMurray, Archts., General Bldg. 3-14

Tenn., Nashville—George Peabody College for Teachers erect \$50,000 Confederate Memorial Hall.

Tenn., Spring City—Rhea County Bd. of Education, Chapman Wasson, Chmn., rejected bids and call for new bids in few days for 2-story and basement, 170x112 ft., rein. conc. and brick high and grammar school; R. H. Hunt & Co., Archts., James Bldg., Chattanooga. 2-28

Tex., Aransas Pass—Aransas Pass Ind. School Bd., Dr. Walter Noble, Pres., erect high school and remodel present building; \$75,000 available; Ralph H. Cameron, Archt., City Natl. Bank Bldg., San Antonio.

Tex., Carrizo Springs—Carrizo Springs School Dist., Warren E. Holmgren, Pres., plans vote soon on \$100,000 bonds for high school; Ralph H. Cameron, Archt., City Natl. Bank Bldg., San Antonio.

Tex., Eastland—Eastland Ind. School Dist. plans vote on \$75,000 bonds. Address Dist. School Trustees.

Tex., Harlandale, San Antonio—Bd. of Education, M. L. Rees, 410 Pacific Ave., receives bids March 25 for \$13,000, 1-story, brick, 5-classroom addition to Harlandale Jr. High School; plans from Morris & Noonan, Archts.-Engrs., Builders Exchange Bldg., San Antonio. 3-7

Tex., Hearne—Hearne School Dist. voted \$110,000 bonds for high school and negro school. Address Dist. School Trustees. 2-14

Tex., Houston—Houston Ind. School Dist., H. L. Mills, Bus. Mgr., receives bids March 22 for \$110,000, 15-classroom and shop addition to John Marshall Jr. High School; Hedrick & Gottlieb, Archts., Post-Dispatch Bldg. 2-14

Tex., Humble—Humble Ind. School Dist. voted \$140,000 bonds for conc. and brick Junior-Senior High School to replace burned structure; Harry D. Payne, Archt., Kirby Bldg., Houston. 3-7

Tex., Luling—School Bd., Ernest Wilson, Sec., erect \$15,000 ward school.

Tex., Orange—Bancroft School Dist. soon let contract for school in Pinehurst addition. Address Orange County Bd. of Education.

Tex., Uvalde—School Bd., Guy D. Dean, Supt., erect \$100,000 high school; Adams & Adams, Archts., Real Estate Bldg., San Antonio.

W. Va., Fairmont—Paw Paw School Dist. votes April 16 on \$225,000 bonds; E. E. Hale, Marion County Supt. of Schools. 3-7

### Stores

Ala., Birmingham—W. T. Northington Estate, 1708 N. First Ave., remodel 4-story and basement store, First St. and 21st Ave., all contracts let and material purchased; Haverly Furniture Co., Lessee, 1914 N. 4th Ave.; Miller & Martin, Archts., Title Guarantee Bldg. 3-14

Ark., El Dorado—B. W. Reaves, Jr., care Kolben, Hunter & Boyd, Archts., 402 Armstrong Bldg., soon ready for bids for \$30,000, 2-story, 80x80 ft., brick and frame store on S. Washington St.; built-up comp. roof.

D. C., Washington—Mrs. Medill McCormick, 1534 28th St. N. W., has permit for \$50,000, 2-story, brick addition and remodeling building at 1224 Thirteenth St. N. W.

Fla., St. Petersburg—Rutland Bros., Inc., 501 Central Ave., erect 3-story addition and remodel store; \$60,000.

Ky., Louisville—Weissinger-Gaulbert Real Estate Co., 401 McDowell Bldg., has permit to remodel brick apartment and store, 701-3 S. Third St.; \$10,000.



La., New Orleans—Nicholas Forti, 520 Forstall St., erect store and residence, Chartres and Royal Sts.; ready for bids.

La., Shreveport—Robert H. Fishel, 1137 Daizell St., receives bids about March 25th for remodeling store, 510-12 McNeil St.; one-story, 30x80 ft.; \$10,000, including furnishings; Seymour Van Os, Archt., City Bk. Bldg. 3-14

La., Shreveport—Mrs. Fannie Noel received bids March 22 for 2 stores and filling station, Creawell and Olive Sts.; M. D. Weeks, Archt., 816 Hope St.

La., Shreveport—C. W. Lane, Giddens Lane Bldg., rejected bids for alterations to 2-story brick building, 528 Common St.; E. A. George, Archt., Giddens Lane Bldg., revise plans. 3-14

Miss., Jackson—Howie & Howie, John Hart Bldg., erect \$10,000, 2-story store, Lamar and Capitol Sts., to be occupied by J. M. Black Grocery Co.

Mo., Cape Girardeau—Joseph Baumgartner erect business building, Middle St. and Broadway.

Mo., Springfield—W. T. Grant Co., 455 Seventh Ave., plans building on South Ave.

N. C., Charlotte—Louis G. Ratcliffe, 322 S. Tryon St., erect \$25,000 store; Wm. H. Peeps, Archt., Latta Arcade; bids in.

N. C., Durham—S. H. Kress Co., 114 Fifth Ave., New York, erect \$250,000, 55x100-ft., brick, fireproof store, W. Main and S. Mangum Sts.; plans by E. J. T. Hoffman, care owner. 3-14

Okl., Tulsa—Allen & Scott soon call for bids for \$16,000, 1-story and basement, brick store; John V. Starr, Archt., 102 S. Owasso St.

Tenn., Kingsport—Parks-Belk Department Stores, New York City, and Charlotte, N. C., remodel Strauss Bldg. on Broad St.

Tenn., Nashville—R. A. Armstead, 700 No. 12th St., erect 1-story and basement, 37x69 ft., brick, stone and terra cotta store, 11th and Woodland Sts.; O. J. Billis, Archt., 62 Arcade; bids in.

Tex., Alice—Holmgreen Brothers erect \$15,000, 1-story, 100x75 ft., brick and rein. conc. store.

Tex., Marion—John Hicks, Marion, soon ready for bids for 1-story, 50x55 ft., brick, conc. and tile store; John M. Marriott, Archt., Frost Bldg.; Roy W. Leblais, Asso. Archt.; Beretta-Stiles Co., Inc., Engr., Natl. Bank of Commerce Bldg., all San Antonio.

Tex., Normangee—Donahoe & Martin erect brick building, Main and Second Sts., to be occupied by T. S. Batson.

Tex., Rock Springs—W. B. Hough erect 1-story, 70x60 ft., frame and hollow tile, 3-store building.

Tex., Sherman—Sharp Brothers, Honey Grove, erect 1-story, 50x80 ft., brick buildings on N. Walnut St.

Tex., Temple—A. J. Jarrell and D. B. Boyd rebuild structure destroyed by fire at loss of \$50,000.

Tex., Waco—Lon Wollett soon call for bids for 2-story brick building, Franklin Ave. and 6th St.; T. Brooks Pearson, Archt., 1824 Mitchell Ave.

Tex., Waco—Mrs. Esther Rubinsky, reported, remodel 2-story building, Third and Franklin Sts., for dry goods store.

### Theaters

Fla., Palatka—Louis Kalbfeld and associates erect theater, Lemon and Third Sts.

Fla., Tampa—E. D. Stone erect \$15,000 theater, Lamar and Scott Sts.; Kellogg & Martin, Archts., 516½ Franklin St.

La., Monroe—Herman and Sig Masur, 900 N. Second St., received bids March 23 for \$30,000, 1-story and balcony, 50x150 ft., rein. conc., brick, stone trim, fireproof theater, on Desiard St.; built-up comp. roof; seat 800 people; plans from J. W. Smith and Associates, Archts., Ouachita Bank Bldg. 3-7

Tex., Llano—Land-Text Theater Co. erect \$20,000 theater.

Va., Blacksburg—Blacksburg Realty Corp. erect \$70,000, fireproof theater, store and office building; L. P. Smithy, Archt., 112 W. Kirk Ave., Roanoke.

Va., Salem—Floyd Plank and Calm Whitsett, Blacksburg, erect theater; L. P. Smithy, Archt., 112 W. Kirk Ave., Roanoke.

### Warehouses

Fla., Jacksonville—Atlantic Coast Line Rwy., B. E. Widden, Engr., Wilmington, N. C., soon let contract for \$60,000, 2-story, 50x225-ft. brick warehouse; comp. roof.

Ga., Commerce—Commerce National Manufacturing Co. erect \$75,000 rein. conc., struc. steel and brick warehouse; comp. roof; Scroggs & Ewing, Archts., S. F. C. Bldg., Augusta.

Ky., Mt. Sterling—A. R. Robertson & Co. erect 1-story, 200x216-ft. tobacco warehouse; frame and iron metal siding, built-up comp. roof. See Want Section—Building Material and Equipment. 3-14

Okl., Tulsa—J. M. Allen and H. M. Scott, 533 Tulsa Trust Bldg., erect warehouse and office building, 28 N. Guthrie St., to be leased to Foxboro Co., Foxboro, Mass., J. B. McMann, Dist. Mgr.; 5000 sq. ft. floor space; provide facilities for repairing and assembling Foxboro products.

Tex., El Paso—Momsen-Dunnegan-Ryan erect \$40,000 warehouse, 800 E. Overland St.

Engineering Co., 20 E. Franklin St., Baltimore, Md., for administration and equipment bldg.; brick, stone trim, 9 stories, basement and sub-basement, 75x144 ft., 3 elevators; \$900,000; Voorhees, Gmelin & Walker, Archts., 228 E. 56th St., New York; foundation and steel contracts let. 2-28

### Churches

Ala., Birmingham—Blessed Sacrament R. C. Church let contract at \$125,000 to Foster Creighton Co., First Natl. Bk. Bldg., for rein. conc., brick, tile and Alabama limestone; 3 stories and basement, 130x70 ft., stone trim, struct. steel, tile and conc. floors, main auditorium seat 500, Sunday school auditorium seat 600; Carey & Dowling, Archts., State Office Bldg., Mobile; C. A. Wilson & Associates, Engrs. 1-31

Ala., Eufaula—First Baptist Church let contract at \$33,900 to H. H. Brown Construction Co., Dothan, for Sunday school annex; brick, conc. footings, conc. and wood floors, comp. roof. 3-14

Ga., Atlanta—Hills Park Baptist Church, Rev. Henry E. Marlow, Pastor, erect brick auditorium; comp. roof; day labor.

Ga., Macon—Cherokee Heights Baptist Church let contract for \$50,000 addition to W. D. Griffin, 210 Worship St.; brick, conc. footings, comp. roof; Dunwoody & Oliphant, Archts., 460 Broadway.

Mo., Hickman Mills—Christian Church let contract to Widener & Patterson, Raytown, Mo., and 1312 E. 76th St., Kansas City, for \$35,000 bldg.; 1 story and basement, 30x55 ft., and 2 stories and basement, 87x47 ft.; brick and stone; Hoener, Baum & Froese, Archts., 3605 Laclede St., St. Louis. 2-14

Tenn., Memphis—Speedway Terrace Baptist Church, 601 N. Bellevue St., erect \$15,000 Sunday school annex; brick veneer, 3 stories; Edw. B. Phillips, Archt.; H. H. Walsh, Contr., Dermon Bldg.

Tex., Houston—Clements Memorial P. E. Church let contract to P. H. Fredericks for \$11,000 parish house, Parkview Ave. near Houston Ave.; brick, stone trim, 1 story, 28x87 ft.; also construct rein. conc. foundation for proposed auditorium; R. D. Steele, Archt., First Natl. Bank Bldg. 1-24

### City and County

Tex., San Antonio—City let contract at \$57,273 to Dielmann Construction Co., 306 E. Commerce St., for community center and library, Woodlawn Lake; stone and conc., 1 and 2 stories, about 95x145 ft., tile roof; Emmett T. Jackson, Archt., Bldrs. Exch. Bank of Commerce Bldg. See Want Section—Building Material and Equipment. 3-14

### Dwellings

Ala., Anniston—E. D. King let contract to Ogletree Construction Co., Anniston, for Colonial residence; brick veneer, 2 stories and basement, 60x30 ft., hardwood floors, asbestos shingle roof; Owen J. Southwell, Archt., Haas-Howell Bldg., Atlanta, Ga. 1-10

Ala., Birmingham—J. G. Ringer, Archt., 512 Martin Bldg., completed plans for brick veneer dwelling; 2 stories, 37x37 ft., 8 rooms; day labor.

Ala., Birmingham—L. F. Berry, 3118 Carlele Road, erect \$15,000 residence, Salisbury Road; brick veneer, 2 stories, 56x30 ft., asbestos roof, steam heat; Woolard & Lynch, Contrs., 2115 N. First Ave.

Ala., Birmingham—T. E. Bradford, 1827 N. Fourteenth Court, erect brick veneer residence, Lakeview Park; 2 stories, 30x45 ft., Phillip S. Mewhinney, Archt., Woodward Bldg.; Harrison Richardson Building Co., Contr., Brown-Marx Bldg.

Ala., Birmingham—Chas. J. Cargile, 306 Sixth Place, let contract for \$13,000 residence to J. E. Woolley Construction Co., 30 W. Third Ave.; stucco and timber, 2 stories, hot air heat; Turner & Slater, Archts., Martin Bldg. 3-14

Ala., Florence—E. M. Young started work on brick veneer residence, E. Tombigbee St.; E. M. Lull erecting 6-room residence, W. Irvine Ave.

Ark., Pine Bluff—J. C. Heart, 805 W. 24th St., erect \$10,000 brick residence, Tamo Pike; 2 stories, oak floors, wood shingle roof; M. M. Remond, Contr., 517 W. 23rd St.

D. C., Washington—Wardman Construction Co., 1437 K St., N. W., erect 26 brick and tile dwellings, 601-19 Tuckerman St., 6401-11 Seventh St., N. W., and 600-19 Tewkesbury Rd.; \$130,000; owner builds.

D. C., Washington—L. E. Breuninger & Sons, Colorado Bldg., have permit for \$15,000 dwelling, 1349 Iris St., N. W.; 2 stories; owners build.

D. C., Washington—Cafritz Construction Co., 1400 K St., N. W., has permit for 12 brick dwellings, 4409-31 Third St., N. W.; 2 stories; \$110,000.

Fla., Coral Gables, Miami—Carl Green, Bldr., started work on \$44,000 dwelling and garage, 741 N. Greenway Drive; Italian type, 2 stories, 4 baths.

Fla., Inverness—Lon G. White, Tampa, erect \$32,000 residence, Crystal Springs Road; stucco and hollow tile, brick trim, 1 story and basement, 67x51 ft.; F. J. Kennard & Son, Archts., Krause Bldg.; E. G. Carlson, Contr., 909 W. Hillsboro Ave., both Tampa.

Fla., Miami—Miller Bros. have contract to erect 2 dwellings and garages, 2183 S. W. 16th Terrace and 959 N. W. Fifth St.

Fla., Miami Beach—Jas. M. McDonald erect \$20,000 residence and garage, 5800 Sheridan Ave., Beachview; 2 stories, 60x51 ft., conc. block; Jesse P. Montz, Contr., 4349 Sheridan.

Fla., Miami Beach—Harry Hice, care City Builders Finance Co., 1670 Alton Rd., erect \$13,000 residence and garage, 1345 Fourteenth St.; owner builds.

Ga., Atlanta—J. B. Richardson, 138 Ellis St., N. E., erect 2 brick veneer dwellings, 801 Amsterdam and 596 Forrest Aves., N. E.; 6 rooms and bath, hardwood floors, tile baths, comp. roofs; \$12,000; owner builds.

Ga., Atlanta—F. E. DeGollan, 101 Marietta Bldg., rebuild residence, Howell Mill Road, damaged by fire; brick, stone trim, 2 stories and basement; day labor.

Ga., Augusta—Park A. Rowley erect \$19,000 dwelling, 2345 Walton Way; brick veneer, 2 stories, slate roof; H. Anderson, Jr., 1117 Highland Ave.

La., New Orleans—Dr. B. F. Ester erect single raised residence, 827 N. Claiborne St.; B. J. Walker, Contr., 2232 Cadiz St.

## BUILDING CONTRACTS AWARDED

### Association and Fraternal

Tex., Fort Worth—Fort Worth Area Council, Boy Scouts of America, Jerry Fulkerson, Executive, start work within 30 days on native stone buildings, 265-acre tract; construction by owner.

### Bank and Office

Ala., Ensley—Ensley Holding Co., Birmingham, let contract to E. G. Holliday Co., Birmingham, for superstructure of 10-story and basement Ramsay-McCormack Building; \$350,000, fireproof, structural steel and rein. conc., brick and tile, stone trim, built-up roof; Brooke B. Burnham, Archt., Age-Herald Bldg.; W. C. Spiker, Engr., Empire Bldg.; R. W. Brunell, Mech. Engr., Amer. Tr. Bldg., all Birmingham; excavation, foundation and basement contracts previously noted let. 2-14

Mo., St. Louis—Stupp Bros. Bridge and Iron Co., Weber Road, has contract for 150 tons fabricated struct. steel for addition to Mercantile Trust Co. building; Aegerter & Bailey, Archts.; Westlake Construction Co., Contr., both Rwy. Exch. Bldg. 8-23

Okl., Tulsa—Walter Phillips, Atlas Life Bldg., let contract to Chas. M. Dunning, Tulsa and 420½ N. Hudson St., Oklahoma City, for 5-story, basement and sub-basement store and office bldg., Fifth St. and Boston Ave.; foundation for 12 stories; additional stories before completion of structure if demand warrants; buff brick facing, terra cotta trim, Minnesota granite base, 150x140 ft., 1 freight and 6 passenger elevators, 28 shops on first 2 floors; \$750,000 to \$800,000; Smith & Senter, Archts., Philtower Bldg. 1-24

Va., Richmond—Chesapeake & Potomac Telephone Co., C. H. Weber, Vice-Pres., let contract at about \$500,000 to Consolidated

La., New Orleans—Matty Zimmer erect single raised residence, Fairmont Drive near Elder St.; E. Charbonnet, Contr., 1728 St. Philip St.

La., New Orleans—Maxwell & Rector, 714 Union St., erect double raised residence, Gentilly Blvd., near Fairmont Drive

Md., Baltimore—Mueller Construction Co., Gunther Bldg., erect 12 brick dwellings, 3700-50 Ellerslie Ave.; 2 stories, 19x33 ft. and 19x32 ft., slate roofs, hot water heat; \$100,000; Lewis & Westenhaver, Archts., 20 E. Lexington St.; owner builds.

Md., Baltimore—Karl Buselmeier, 5700 Birchwood Ave., erect 2 conc. block and stucco dwellings, 406 Old Orchard Road; 1½ stories, 54x30 ft., slate roof, hot water heat; Alex. O. Buselmeier, Archt.; A. Arnold & Sons, Contrs., 2929 Clifton Ave.

Md., Baltimore—John Welsh, 11 E. Fayette St., erect 8 brick dwellings, 3117-31 North Ave.; 2 stories, 19x30 ft., slag roof; \$20,000; Geo. Wessel, Archt., 601 W. 40th St.; owner builds.

Md., Baltimore—Geo. Benkert, Caton Ave., erect 9 brick dwellings, 3227-43 Phelps Lane; 2 stories, 20x30 ft. and 15x45 ft., slag roofs; \$23,000; Geo. Wessel, Archt., 601 W. 40th St.; owner builds.

Md., Baltimore—Mrs. J. M. Munn, Warrenton and Overhill Roads, erect residence; brick and stone, 2½ stories and basement, wood and tile floors, stone foundation, slate roof; Wm. F. Stone, Jr., Archt., Munsey Bldg.; Wm. P. Pearson, Contr.

Md., Baltimore—Jos. Peters, 3119 Myrtle Place, erect 41 dwellings, 1200 and 1300 blocks W. 40th St.; brick, stone porches, 2 stories, 15x43.6 ft., pine and hardwood floors; owner building. See Want Section—Building Material and Equipment.

Md., Baltimore—C. A. Ellert, 1005 Carnegie Ave., erect 1000 residence and garage; conc. block and stucco, 2 stories, 26.8x49 ft., parquet floors, slate roof; P. S. Lubinski, Archt., 5601 Nebraska Ave., Washington, D. C.; Capital Fireproofing Construction Co., Inc., Contr., 1727 Fleet St., Baltimore, and Vermont Bldg., Washington. See Want Section—Building Material and Equipment. 3-7

Md., Baltimore—Fredk. E. Schulte, 3600 Dillon St., erect 11 brick dwellings, 600-20 Fayley St.; 2 stories; \$22,000; plans and constr. by owner.

Md., Baltimore—Gunn & Orrick Co., Inc., 306 N. Charles St., erect \$13,000 dwelling, 110 Tunbridge Rd., Homeland; 2½ stories, 51.10x56.3 ft., slate roof, hot water heat; Cyril H. Hebrank, Archt., 3 E. Lexington St.; owners build. 2-14

Md., Baltimore—Maryland Home Building Company, Munsey Bldg., erect 15 dwellings, 4116-44 Parkside Drive; brick, 2 stories, hot water heat; \$37,500; owner builds.

Miss., Jackson—Solvent Investment Co., A. D. Campbell, Sales Mgr., let contract to J. O. Manning for 2 dwellings, Pierre Verde subdivision, connection with development; brick and conc., 1 story, 40x53 ft., hardwood floors, conc. foundations, tile roofs; N. W. Overstreet, Archt., Mississippi Fire Bldg.; W. B. Montgomery, Engr., Henry Memorial Bldg.; other dwellings as demand requires. 2-21

Mo., Columbia—Mrs. Smith erect \$10,000 duplex; brick and tile, 1 story, 30 x 50 ft.; Bill & Traber, Archts., 1008 E. Broadway; C. E. Hobard, Contr.

Mo., Kansas City—Leo F. Brady, Bldr., 300 E. 70th St., Terrace, purchased 3 sites, Armour Fields and 11 in Romanelli Gardens; erect dwellings.

Mo., Kirkwood, St. Louis—R. S. Baker, 20 N. Rockhill Rd., Webster Groves, erect \$17,000 residence; Osage Hills; stone, 2 stories, 38x42 ft., slate roof; Howard & Finley, Archts., Contrs.

Mo., Kirkwood, St. Louis—Floyd Davis, 749 Sherwood Drive, erect \$10,000 frame residence, Wyandotte Trail, Osage Hills; 2 stories, 4x26 ft., slate coated roof, hot air heat; Chas. Thurston, Archt.; Yayne Bros., Contrs.

Mo., Kirkwood, St. Louis—H. G. Heitzberg, 4455 Shaw St., St. Louis, erect \$10,000 frame residence, Adams St.; 2 stories, 23x34 ft., comp. shingle roof, hot water heat; Meyer Construction Co., Contr.

Mo., Springfield—Jesse M. Cain, 315 N. Roberson Ave., erect 8 dwellings, Kimbrough Ave. and Ullman St.; hardwood floors, comp. roof, steam heat; \$40,000; day labor.

Mo., Springfield—C. W. Rule, 1004 Roanoke Ave., erect \$12,000 brick veneer and conc. residence, 1445 E. Delmar St.; semi-fireproof, 2 stories and basement, tile roof, steam heat; day labor.

Mo., St. Louis—W. H. Edwards, care Chas. Meilert, Archt., Wainwright Bldg., erect \$15,000 brick residence, Bel Nor; 2 stories and basement, 34x32 ft., hardwood and tile floors,

tile bath, incinerator, elect. refrigerator; work by sub-contract.

Mo., St. Louis—B. P. Hardt, 3303 Watson Road, erect 3 brick dwellings; 1½ stories, 26x30 ft., asphalt shingle roofs, hot air heat; \$12,000; H. Hardt, Contr., 3117 Watson.

Mo., St. Louis—Clifton Realty Co., 1542 S. Theresa St., erect 3 brick dwellings, 6505-11-15 Southwest St.; 1 story, 25x36 ft., asphalt shingle roofs, warm air heat, \$10,000; C. T. Watson, Archt.-Contr.

Mo., St. Louis—St. Mary Magdalen R. C. Church, Rev. John J. Thomsan, Pastor, erect addition to parsonage, 4917 Sutherland Ave.; brick, 2 stories; Wm. P. McMahon, Archt., 719 Buder Bldg.; Gillespie & Daly, Inc., Contr., 418 Intl. Life Bldg.

Mo., St. Louis—Koehler Investment Co., 4310 Grace Ave., erect \$10,000 residence, 3966 Bowen St.; brick, 2 stories and basement, 29x33 ft., hardwood floors, comp. shingle roof, hot water heat F. A. Schepeler, Contr., 5330 Loughborough St.

Mo., St. Louis—Fred J. Bessee, 2438 California Ave., erect 2 dwellings, 2734-41 Osceola St.; brick, 1 story and basement, 24x32 ft., asphalt shingle roof, hardwood floors, hot air heat, stone foundation; \$12,000; Adolph Stauder, Archt., 6032 S. Kingshighway Blvd.; owner builds.

Mo., St. Louis—J. H. Joerding, 4315 Margaretta Ave., erect residence; brick, 1 story and basement, 43x38 ft., comp. shingle roof, hardwood floors; \$10,000; Theo. H. Joerding, Contr., 5815 Wabada Ave.

Mo., St. Louis—H. B. Carson, 152 Linden St., started work on stone residence, Carrswold; fireproof, brick trim, 12 rooms, 3 baths, variegated slate roof; Maritz & Young, Inc., Archts., Chemical Bldg.

Mo., St. Louis—J. A. Latzer, Arcade, erect \$40,000 residence, Brentmoor; brick, 40x72 ft.; Maritz & Young, Inc., Chemical Bldg., Archts.; Higbee Bros. Construction Co., Railway Exchange Bldg., Contr.

Mo., St. Louis—Dudley French erect \$10,000 residence and garage, Ellenwood; brick, 45x35 ft.; Jamieson & Spearl, Archt., Arcade Bldg.; Gamble Construction Co., Contr., 620 Chestnut St.

Mo., St. Louis—O. Schoening, 2635 S. Ninth St., erect \$11,000 residence, 4116 Kingshighway, S. W.; brick, 2 stories and basement, 28 x 45 ft., hardwood floors, tile bath, tile and asphalt shingle roof, hot air heat; Ollie C. Farber, Contr., 4315 Kingshighway.

Mo., St. Louis—P. F. Mellor, 1020A Commodore Ave., erect \$12,000 brick residence, Wydown Forest; 2 stories and basement, 30 x 48 ft., hardwood floors, tile bath, comp. roof, hot water heat; Adolph F. Stauder, Archt., 6032 S. Kingshighway; Henry Beetz & Son, Contrs., 2668 Nebraska Ave.

Mo., St. Louis—M. C. Bartels, 4910 Gravois St., erect brick dwellings, Kingshighway, S. W.; 2 stories and basement, various dimensions, hardwood floors, tile baths, slate roofs, hot water heat; O. J. Popp, Archt., Arcade Bldg.; work by sub-contract.

Mo., St. Louis—R. Bruegge, 2905 Sidney St., erect \$10,000 brick residence, 6009 Wanda Ave.; 2 stories and basement, 28 x 25 ft., hardwood floors, tile bath, asbestos shingle roof, hot air heat; Henry Schaumburg, Archt., 3631 Connecticut St.; F. G. Schroeder, Contr., 3860 Arsenal St.

Mo., St. Louis—Chas. S. Muerl, 3609 Hartford St., erect frame residence, Hancock St. near Ivanhoe Ave.; 1 story and basement, 31 x 38 ft., hardwood floors, tile bath, comp. shingle roof, hot air heat; Benj. Shapiro, Archt., Synd. To. Bldg.; work by sub-contract.

Mo., St. Louis—Dr. Max C. Starkloff remodel and enlarge office and residence, 512 Dover Place; brick, 2 stories and basement, 37 x 27 ft.; \$10,000; F. J. Kolb, Archt., 3855 Shaw Ave.; E. W. Emmenegger, Contr., 3715 Bayles Ave.

Mo., St. Louis—C. Renz, 4916 Walsh St., erect 2 dwellings, 6042-52 Wanda Ave.; brick, 1 story and basement, 25x35 ft., hardwood floors, tile bath, comp. shingle roof, hot air heat; \$12,000; Adolph Stauder, Archt., 6032 S. Kingshighway; work by sub-contract.

Mo., St. Louis—Carl Pfeiffer, 4704 Penrose St., erect 2 brick dwellings; 1 story and basement, 27x45 ft., tile bath, hardwood floors, comp. shingle roofs, hot air heat; \$10,000; work by sub-contract.

Mo., St. Louis—E. Urban, care Chas. Meilert, Archt., Wainwright Bldg., erect brick and stone building, Bel Nor; 2 stories and basement, 34x40 ft., hardwood floors, tile bath, slate roof, hot water heat; work by sub-contract.

Mo., St. Louis—E. R. Weekley, 4742 Northland Ave., erect \$10,000 brick residence, 5523 Greer Ave.; 2 stories and basement, 19x29

ft., tile bath, hardwood floors, asphalt shingle roof, hot air heat; O. J. Franklin, Contr., 4842 Northland.

Mo., St. Louis—Paul Heimsch, 3322 Holiday Ave., erect \$13,000 residence, Grantwood Terrace, after plans by Herbert Guth, 813½ Chestnut St.; brick, 1 story and basement, 60 x 25, hardwood floors, tile roof and bath, hot air heat; work by sub-contract. 3-14

Mo., St. Louis—E. Sudhoff, Intl. Life Bldg., erect \$10,000 residence, 4082 Toenges St.; 2 stories and basement, 26x40 ft., tile bath, hardwood floors, asphalt shingle roof, hot air heat; Keithly Construction Co., Contr., 2301 S. Kingshighway.

Mo., St. Louis—Paul M. Will, 4226 Ellenwood Ave., erect 2 brick dwellings, 5276-78 Marmaduke Ave.; 1 story and basement, 26x40 ft., hardwood floors, comp. shingle roof, tile bath, hot air heat; work by sub-contract.

Mo., St. Louis—Henry Folkers, 917 Dover Place, erect \$12,000 residence, 3841 Kingshighway, S. W.; brick, 1½ stories and basement, 46x29 ft., tile bath, hardwood floors, tile roof, hot water heat; F. G. Avis, Archt., 1021 Big Bend Blvd.; work by sub-contract.

Mo., St. Louis—Anton Hoff-Schwelle, 2037 E. Prairie Ave., erect \$10,000 residence, 2000 DeSoto Ave.; brick, 1 story and basement, 30x35 ft., hardwood floors, tile bath, slate shingle roof; Manske & Bartling, Archts., 4526 Olive St.; work by sub-contract.

Mo., University City, St. Louis—Mae Kuntz, 516 Warder Ave., started work on 4 dwellings, 521-35-43-49 Donne Ave.; brick, 2 stories and basement, various dimensions, hardwood floors, tile baths, comp. roofs, hot water heat; \$40,000; Arthur T. Grindon, Archt., 7372 Sutherland Ave., Webster Groves; L. C. Hosack, Contr., 516 Warder Ave.; work started.

Mo., University City, St. Louis—John W. Jones Construction Co., 1427 N. Hanley Rd., erect \$12,000 dwelling, 7275 Dartmouth Ave.; brick, 2 stories and basement, 27 x 44 ft., hardwood floors, tile bath, comp. shingle roof, hot water heat; work by sub-contract.

Mo., University City, St. Louis—E. W. Schumacker, 4235 Magnolia St., let contract to Kloster & Co., 3311 Meramec St., for \$11,000 residence, 7401 Stratford St.; brick, 2 stories, 30x32 ft., tile roof; A. F. Stauder, Archt., 6032 S. Kingshighway. 1-31

Mo., University City, St. Louis—C. A. Perry, 511 Midvale St., erect 2 brick dwellings, 540 Purdue St. and 7434 University Drive; 2 stories, 37.8x45.3 ft. ad 31x32.2 ft., slate roofs, hot water heat; \$12,000; Nolte & Nauman, Archts., Fullerton Bldg., St. Louis; owner builds.

Mo., University City, St. Louis—Frank Halter, 6500 Joseph St., erect 2 brick dwellings and garages, 7025-29 Arcadia St.; 1½ stories, 23x29 ft., tile roofs, hot air heat; \$10,000; Jim Bellamy, Contr., 6540 Plymouth St.

Mo., University City, St. Louis—A. J. Moltenbeck, 6312 Victoria St., erect \$10,500 residence and garage, 528 Midvale St.; 2 stories, 34x47 ft., slate roof, hot water heat; owner builds.

Mo., University City, St. Louis—B. S. Cornwell, Arcade Bldg., erect 2 brick dwellings, 7255-59 Colgate St.; 2 stories, 32x26 ft., comp. roofs, hot water heat; \$14,000; plans and construction by owner.

Mo., University City, St. Louis—Charles R. Lamping, 7312 Forsythe Blvd., erect residence; brick, 2 stories and basement, 23x41 ft., hardwood floors, slate roof, hot water heat; Wm. P. McMahon, Archt., 719 Buder Bldg.; Geo. C. Smith, Contr., 1020 Quendo Ave.

Mo., University City, St. Louis—Mamie Rhodes, 610 Chestnut St., erect residence and garage, 7235 Creveling Drive; brick, 2½ stories; Nolte & Naumann, Archts., Fullerton Bldg.; Geo. P. Bergfeld Co., Inc., Contr., 610 Chestnut St.

Mo., Webster Groves, St. Louis—Robt. and Carrie Kinsey erect \$13,000 residence, 520 Sherwood Drive; tile, 2 stories, 8 rooms; H. Hinricks, Jr., Contr.

Mo., Webster Groves, St. Louis—H. Hoyer, 225 Arbor Lane, erect 2 brick dwellings, 310 Arbor Lane and 337 Rosedale Place; 1½ and 2 stories, conc. block and stucco and brick, 29x33 ft. and 33x23 ft.; \$12,000; owner builds.

N. C., Charlotte—Dr. Wade S. Marshall, 1533 South Boulevard, erect \$25,000 brick veneer residence, 1603 Sherwood Ave.; 2 stories, 7 rooms; J. Cozby Byrd, Archt., First Natl. Bank Bldg.; Andrews Construction Co., Contr.

N. C., Charlotte—Warren Mobley Co. erect 3 brick dwellings, 2512-27-35 Hempstead Ct.; 2 stories and basement; \$36,000; day labor.

N. C., Charlotte—B. F. Wellons, 1024 Dilworth Road, erect \$10,000 residence, Selwyn Ave.; brick, 2 stories and basement; day labor.



Okl., Tulsa—Harry H. Smith, Tulsa Bldg., let contract to Matt O'Connell for stone residence; frame partitions, 2 stories and basement, irregular shape, about 40x120 ft., wood floors, slate or tile roof, conc. foundation; Donald McCormick, Archt., Atlas Life Bldg.; R. I. Ludwig, Engr., Commercial Bldg. 12-20

Tenn., Memphis—Fred Hogan, 1902 Oliver Ave., erect \$10,000 duplex, N. Barksdale St.; brick veneer, 1 story and basement, oak floors, tile baths, comp. shingle roof, hot water heat; owner builds.

Tenn., Memphis—Sidney J. Humphreys, 262 Hawthorne St., erect brick veneer and shingle residence, Poplar Pike; 2 stories and basement, 7 rooms, oak floors, tile bath, hot water heat, garage and servants' quarters; Estes W. Mann, Archt., Cotton Exch. Bldg.; R. C. Crouch, Contr., 63 S. Third St.

Tenn., Memphis—M. Dlugach, 149 Madison Ave., erect 2 brick veneer dwellings, University Circle; 1 story and basement, 6 room, oak floors, tile baths, comp. shingle roofs, hot water heat; \$10,000; owner builds.

Tenn., Memphis—Chas. Gerber, Macon Rd., erect wide siding residence, Macon Rd.; 2 stories and basement, 65 x 60 ft., oak floors, tile baths, comp. shingle roof, steam heat; Joe T. Wallace, Archt., Bk. of Commerce Bldg.; Willis T. Hudson, Contr., 63 S. Third St.

Tenn., Memphis—Edw. P. Viegh, 12 N. McLean St., let contract to W. C. Stout, 719 Maury St., for brick veneer residence, Willett St. near Overton Park Ave.; 1 story and basement, 35x50 ft., oak floors, tile bath, comp. shingle roof, hot water heat; R. B. Spencer, Archt., 495 N. Garland St. 3-14

Tenn., Memphis—A. Horn, Monroe and Main Sts., erect \$15,000 duplex, 1520 Peabody Ave.; brick veneer, 2 stories and basement, 16 rooms, oak floors, tile baths, steam heat; A. Eberhart & Son, Contrs., 66 S. Third St.

Tenn., Memphis—Bruce York, 1639 Monroe Ave., erect \$10,000 brick veneer residence, 600 block Mansfield St.; 1 story and basement, 28x60 ft., oak floors, tile bath, comp. shingle roof, hot water heat; owner builds.

Tex., Galveston—B. Wittjen, Bldr., has permits for 10 dwellings, Cedar Lawn, Palm Gardens and 1810 Fortieth St.; brick veneer, \$58,500.

Tex., San Antonio—Dr. A. F. Herff let contract to Banks Bros., 2410 Buena Vista St., for Colonial residence; frame and stucco, 2 stories, 2 baths; Herff & Jones, Archts., S. A. Loan & Tr. Bldg. 1-24

Tex., San Benito—Bowie & Trent erect 5 dwellings, Valencia Park; Spanish type, about 32x36 ft., oak and ceramic tile floors, built-in tubs; Walter F. Chambers, Contr.

### Government and State

Ky., Cloverport—Walter Barbo has contract for post office; brick and conc., 1 story, 40x32 ft.

La., Baton Rouge—State, Huey P. Long, Gov., let contract at \$111,028 to J. V. and R. T. Burkes, New Orleans, for \$150,000 governor's mansion, N. Boulevard, between St. Charles and Royal Sts.; Georgian architecture, hollow tile, brick, cast stone or limestone trim, 2 stories and basement, terrazzo and oak floors, Johns Manville asbestos and slate roof, passenger elevator, Kalamain doors; Weiss, Dreyfous & Seifert, Archts., Maison-Blanche Bldg. 3-7

Md., Baltimore—R. D. Brown, care Bishop Knowlton & Carlson, Archts., 312 N. Meridian St., Indianapolis, Ind., let contract to Consolidated Engineering Co., 20 E. Franklin St., Baltimore, for \$750,000 rein. conc. bldg. bet. St. Paul and Calvert Sts., to be leased to Government for parcel post station; Postal Service Corp. organized to erect bldg.; 2 stories, 144x270 ft., wood block floors; structure to be built over railroad bed on 35-ft. piers; Robt. Garrett & Sons, Baltimore, are offering \$650,000 leasehold mortgage (closed) 5½% sinking fund gold bonds to finance. 1-3

### Hospitals, Sanitariums, Etc.

Miss., Aberdeen—City let contract at \$34,000 to Howell Construction Co., Philadelphia, Miss., for hospital; asbestos roofing, conc. foundation; R. A. Heavener, Archt., Jackson, Tenn. See Want Section—Building Materials & Equipment. 3-14

Tex., Port Arthur—Sisters of Charity of Incarnate Word, Houston, let contract at \$433,000 to Standard Construction Co., Esperson Bldg., Houston, for St. Mary's Infirmary; main hospital, negro annex, nurses' home, convent and chapel; brick, tile and rein. conc., 2, 3 and 4 stories, 125 beds, main bldg. 300x40 ft.; Maurice J. Sullivan, Archt., Second Natl. Bk. Bldg., San Antonio. 2-21

### Hotels and Apartments

Ala., Birmingham—Borders & Lavette Realty Co., 513 N. 21st St., let contract to Holmes Construction Co., Exchange Bldg., for 2-story and basement, brick, 10-apartment, Allen St.; built-up roof, steam heat; Jacob E. Salie, Archt., Empire Bldg.

Ala., Gadsden—D. Reich Estate, A. P. Reich, Mgr., let contract to W. H. Mayben for 3-story, fireproof, 100-room hotel to replace Hotel Printup destroyed by fire at loss \$350,000; D. O. Whilldin, Archt., 515 N. 21st., Birmingham. 2-28

La., Shreveport—Following sub-contracts awarded on alterations and additions to Washington and Youree Hotels for United Hotels Co. of South and West, Inc., Geo. H. O'Neill, V.-P., 25 W. 45th St., New York, for which K. C. Wilson, Box 549, Shreveport, has general contract at \$72,619: Plastering and lathing, J. C. Shepherd; millwork, Shreveport Long Leaf Lumber Co., 1632 Texas St.; tile and marble, McCoun Tile & Marble Co., 1121 Prospect St.; plumbing and heating, Fitzgerald Plumbing & Heating Co., 941 Louisiana Ave.; painting, J. V. Schexnadire, 1811 Park Ave.; roofing and sheet metal, Taylor-Seidenbach Co., all Shreveport; rein. steel, Concrete Engineering Co., 2814 Pearl St., Houston, Tex.; kalamain doors, Empire Fire Proof Door Co.; elevator contract let; Jones, Roessle, Olschner & Weiner, Archts., Ardis Bldg., Shreveport. 2-28

Mo., Kansas City—Snyder Realty & Investment Co., W. D. Snyder, Pres., 817 Commerce Bldg., erect \$600,000, 11-story, 155x161-ft. apartment hotel, Linwood Blvd. and Harrison St.; Phillip T. Droits, Archt., 423 Reliance Bldg. 2-21

Mo., Rich Hill—C. S. Beasley and associates reconstruct Talmage Hotel and change name to Parkview Hotel; W. C. Burns, Contr.

Mo., St. Louis—E. Muren erect \$10,000, 2-story, 27x50 ft., brick tenement, 3935 Fillmore St.; comp. shingle roof, hot water heat; J. L. Muren & Son, Bldrs., both 3939 Fillmore St.

Mo., St. Louis—Gravols Realty Development Co. has permit for four 2-story, 34x61-ft. brick tenements, 450-17 Kingshighway, S. W.; \$40,000; comp. shingle roof, hot air heat; P. J. Bulla, Archt.-Bldr., both 5800 Gravols Ave.

Mo., St. Louis—W. Hoerber erect 2-story, 24x46-ft. brick tenement, 3911-23 Dover St.; \$10,000, tile roofs; Moellenhoff Building & Realty Co., Bldr.; C. E. Stevens, Archt., all 5417 S. Grand Ave.

Mo., St. Louis—E. J. Peterson, 8106 Washington St., erect two 2-story, 27x48 ft., brick flats, 7341 and 7345 Amherst St.; \$17,000; comp. roofs, hot water heat; owner builds.

Mo., St. Louis—Arrow Realty and Investment Co., 4519 Euclid Ave., erect 3-story tenements, 4544 N. Kingshighway; 97x95 ft., brick, conc. roofs; G. O. Langenberg, Contr., 2626 Railway Exchange Bldg.; H. A. Wagner, Archt., Clayton.

Mo., St. Louis—Modern Construction Co., 18 N. 8th St., erect two 37x65-ft. brick apartments, Moorlands Addition; \$60,000; owners build.

Mo., St. Louis—Nooma Barrow, 800 Chestnut St., erect \$12,500, 42x49 ft., brick flat, 6606 Clayton road, Hi Pointe Addition; Wm. M. Lawler, Contr., 626 Buder Bldg.

Mo., St. Louis—Consolidated Realty and Investment Co., care Nash Construction Co., Contr., 6660 Delmar Blvd., erect \$135,000, 3-story and basement, 195x45 ft., brick store and apartment, Washington Ave. and Sarah St.; 2 stores, 52 apartments, 30-car garage; asphalt roof, terra cotta trim, hardwood floors, steam heat; Carl E. Eitz, Archt., Title Guaranty Bldg.

Mo., St. Louis—H. W. Simon, 4569 Athlone St., erect two 2-story, 19x51 ft., brick tenements, 4640-42 Moraine St.; \$12,000; H. C. Simon, Bldr., 4155 N. Newstead St.; Schulte & Tarling, Archts., Grand and St. Louis Bldg.

Mo., St. Louis—T. F. Croghan erect two 2-story, 32x46 ft., brick tenements, 3058-64 Marcus St.; \$16,000, asphalt shingle roofs, hot air heat; Marquette Construction Co., Bldr., both 110 N. 7th St.

Mo., St. Louis—M. Maloney, 4200 Easton Ave., erect two 2-story, 27x46 ft., brick tenements, 4321-23 St. Ferdinand St.; \$10,000, tar and gravel roof, hot air heat; Gordon-Horen, Bldr., 906 N. Grand Ave.

Mo., St. Louis—L. Kreinheder, 6608 Elmer St., erect 2-story, 138x81 ft. tenements, 3732-36 Dunnica St.; \$32,000; comp. gravel roof, steam heat; owner, Archt.-Bldr.

Mo., St. Louis—E. Remmert, 4205 Shreve St., erect \$10,000, 2-story, 39x56 ft., brick tenement, 4201-3 Shreve St.; tar and gravel roof, hot air heat; E. H. Holtzman, Archt.-Contr., 4438 Rosalie St.

Mo., St. Louis—L. Bertich, 1103 Chouteau St., erect \$17,000, 2-story, 94x34 ft., brick tenement, 4909 Oleatha St.; Kroeger & Miegler Real Estate Co., Bldr., 6312 Easton Ave.; B. Shapiro, Archt., Syndicate Trust Bldg.

Mo., St. Louis—H. E. Darr, 2005 S. Grand Ave., erect two 2-story, 25x45 ft., brick tenements, 5006-8 Tholoan St.; \$12,000, shingle roof, hot air heat; owner, Archt.-Bldr.

Mo., St. Louis—F. S. Neill, 4246 Lexington St., erect two 2-story, 24x42 ft., brick tenements, 4260-62 Sacramento St.; \$12,000; comp. roofs, hot air heat; J. Tarling, Archt., Hartwig Deschinger Bldg.; owner builds.

Mo., St. Louis—Richardson Building Co., 5200 Nottingham St., has permit for three 2-story, 25x48 ft., brick tenements, 4969-07 Walsh St.; \$24,000; tile roofs, hot air heat.

Mo., St. Louis—Lenore Realty and Investment Co. erect 2-story, 88x99 ft., brick tenements, 4906-12 W. Florissant St.; \$25,000; asphalt roof; Liebowits Construction Co., Bldr., both 4955 Delmar Blvd.; C. E. Eitz, Archt., Title Guaranty Bldg.

Mo., St. Louis—G. Herman has permit for four 2-story brick tenements, 3913-25 Keokuk St.; asphalt shingle roofs, hot air heat; \$30,000; Liebowits Construction Co., Archt.-Contr., both 4955 Delmar Blvd.

Mo., University City, St. Louis—Karl Laiendecker, 5432 Nagel St., erect \$10,000, 2-story, 61x43 ft., brick flat, 7238 Tulane St.; asphalt shingle roof, steam heat; owner builds.

N. C., Asheville—C. W. Teague, 45 Vermont Ave., West Asheville, erect \$20,000, 2-story and basement, brick, 17-room apartment, 56-58 Vermont Ave.; comp. roof; owner, Archt.-Bldr.

N. C., Greensboro—Sunshine Apartment Corp., Mrs. Herman Woodward Winburn, Sec.-Treas., Jefferson Standard Bldg., erect \$100,000, 3 stories and basement, 67x106-ft. brick and stucco, Spanish type Winburne Court Apartments on Tate St. between Rankin and Carr Sts.; Lorenzo S. Winslow, Archt., Piedmont Bldg.; owner builds.

N. C., Hendersonville—G. W. Bucholz Construction Co., Contr., Asheville, soon start work on uncompleted Fleetwood Hotel in Laurel Park, recently purchased by Russell E. Smith Engineers, Inc., 452 Fifth Ave., New York; 15 stories and basement, fireproof, struc. steel, rein. conc., brick and tile, stone trim; also finish 18-hole golf course to be supervised by Donald Ross, Landscape Archt., Southern Pines. 3-14

Tenn., Hamburg—Walter Hayes let contract to Sam Carmen, Union City, for \$15,000, stucco, 20-room hotel.

Tenn., Knoxville—Greenway Home Builders, Inc., Box 678, completed excavation for \$135,000, 3-story, 120x69-ft. brick and stone apartment, 2310 Broadway; oak and tile floors, tile roof; Frank Barber, Archt., Empire Bldg.

Tenn., Memphis—B. P. Chiles, 605 N. Claybrook St., erect two 2-story, 26x191 ft., brick apartments, 1066-78 Dermar Ave.; \$25,000; comp. built-up roof, pine floors; Chiles Bros., Contrs.; I. D. McDaniel, Archt., Goodwyn Institute Bldg.

Tenn., Memphis—Thomas & Cohen, Bldrs., broke ground for \$90,000, 2-story and basement, brick and stone, U-shaped, 16-apartment, McLean Blvd. and Jefferson Ave.; electric refrigeration, 16 garages in rear; Estes W. Mann, Archt., Cotton Exch. Bldg.

Tenn., Nashville—Union City Lumber Co. has contract for 20-room hotel at Samburg on Reelfoot Lake.

Tenn., Pulaski—Lindsay Callahan, Contr., soon start work on brick, 15-apartment on Second St.

Tex., Burnet—L. C. Chamberlain erect \$20,000, 2-story, frame and stucco, 25-room hotel; Martin Nolan, Contr. 3-14

Tex., Fort Worth—Mrs. Martha S. Mason has permits for two \$30,000, 2-story, brick veneer 16-apartments, 2100 block Forest Park Blvd., Upland Addition; Fort Worth Building & Investment Co. in charge of construction.

Tex., Temple—Geo. P. Connorty, 604 S. Seventh St., started work on \$30,000, 1-story, 25x120-ft., hollow tile and stucco apartment, Ninth St. and Avenue G; conc. and tile floors, built-up roof, built-in features; Ed Warnken, Contr., 707 S. Eighth St.; Hodges & Watson, Archts., 208 Roddy Bldg. See Want Section—Building Material and Equipment. 3-14

### Miscellaneous

Ga., Savannah—Froebel Circle of King's Daughters erect Cohen Shelter for Little Ones and other buildings at Fresh Air Home on Tybee Island; \$40,000, 1 story, 141x30 ft., brick; Levy & Clarke, Archts., Blun Bldg.; T. R. Worrell, Contr. 2-21

Mo., St. Louis—Wm. M. Schumacher, 1842 N. Jefferson Ave., let contract to H. Kissel's Sons, 4107 W. Florissant Ave., for \$100,000, 1-story and basement, 84x115 ft., brick building, Natural Bridge and Shreve Aves., for funeral parlors; Wedemeyer & Nelson, Archts., Wainwright Bldg. 2-21

Mo., St. Louis—Humane Society of Missouri, 1618 Carr St., erect \$25,000, 1 and 2-story, 48x80 ft., brick office and service station, 1210 Mackland St.; comp. roof; Fruin-Colnon Contracting Co., Contr., 502 Merchants-Laclede Bldg.; Lighter & Jens, Archts., Chemical Bldg. 3-7

### Schools

Ala., Montevallo—Alabama College, Dr. O. C. Carmichael, Pres., let contract to A. C. Samford, Shepherd Bldg., Montgomery, for auditorium and administration building; 2 stories, brick, limestone trim, slate roof, stone cornice, limestone columns, terrazzo wood block and linoleum floors; contract for alterations and annex to dining room to A. B. Bearden Construction Co., Birmingham; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham. 3-7

Ala., Tuscaloosa—University of Alabama, Dr. George Denney, Pres., let contract at \$117,700 to T. C. Thompson & Bros., 609 N. Smith St., Charlotte, N. C., for rein. conc. stadium; Atwood & Nash, Archts., Chapel Hill, N. C. 3-14

Fla., Orlando—St. James Parish, Rev. M. Fox, Pastor, let contract at about \$35,000 to Kenney Bros., Jefferson Ct. Bldg., for completion parochial school; \$125,000, including furnishings; two-thirds complete; 2 stories, tile walls, steel frame, terrazzo, maple and cement floors, conc. tile roof; Maurice E. Kressley, Archt., Smith Bldg. 3-14

La., Shreveport—Caddo Parish School Bd. let contract to Joe Mandian, 829 Unadilla St., for addition to C. E. Byrd High School.

Miss., Jackson—Bd. of Education, E. L. Bailey, Sec., let following contracts: Alterations and additions to Barr School, \$43,431, and 1-story and basement, 10-classroom, brick Lee School, \$40,791, C. V. Cox, Water Valley; 2-story, brick and stone, 6-classroom addition to George School, \$56,490, Westerfield & Weeks, Lamar Bldg., Jackson; N. W. Overstreet, Miss. Fire Bldg., Archt., for George and Barr Schools; Claude H. Lindley, Lamar Life Bldg., Archt., for Lee School. 2-21 and 3-7

Mo., Hannibal—Hannibal-LaGrange College, Dr. J. W. Crouch, Pres., La Grange, let contract to M. B. Burgher for two 2-story brick dormitories; \$110,000; Bon-sack & Pearce, Archts., 411 Olive St., St. Louis. 10-11

Mo., Walnut Grove—Bd. of Education, L. C. Stanton, Supt., let contract to Bruton & Johnson for \$50,000, 2-story, 86x132 ft., brick, stone trim grade and high school; Heckenlively & Marks, Archts., Landers Bldg., Springfield. 2-7

N. C., Durham—Bd. of Education, M. B. Fowler, Mgr., let contracts to Jewell-Riddle Co., Sanford, at \$62,000 for brick, fireproof, 8-classroom school in North Durham and at \$11,000 for remodeling present 8-classroom, gymnasium and cafeteria school; Northup & O'Brien, Archts., Starbuck Bldg., Winston-Salem. 11-1

Okla., Holdenville—Catholic Church, Rev. Murtough, Pastor, has plans by H. Gimeno, Norman, for \$25,000 parochial school; 2 stories, stone, day labor.

Tex., Waco—Baylor University, H. E. Trippett, Chmn., Bldg. Comm., let contract at \$299,750 to J. E. Johnson Construction Co., 203 Cameron Bldg., for brick, conc. and steel auditorium and chapel, first unit of \$1,000,000 building program; heating and plumbing, Hill Brothers & Co., 705 Austin Ave., Waco; wiring, Grace Electric Co., Dallas; Lang & Wittchell, Archts., American Exchange Bank Bldg., Dallas. 3-7

Va., Lexington—Alpha Tau Omega Fraternity, Washington and Lee University, let contract to The Barry McAlester Co., Columbus, Mo., for \$35,000 frat house; 3 stories, 68x35 ft., brick, Colonial type.

Va., Richmond—Virginia Union University, N. Lombardy St., let contract to A. F. Perrin, 2308 Greenwood Ave., for \$100,000, 2-story and attic, stone dormitory; Albert J. Cassell, Archt., 707 Fairmont St., N. W., Washington. 12-13

Va., Williamsburg—Richmond Structural Steel Co., Richmond, has contract for 300 tons fabricated struc. steel for building at College of William and Mary. 3-14

W. Va., Charlestown—Bd. of Education let contract at \$68,685 to Snider Bros., Inc., Keyser, for high school; plumbing and heating, \$14,590, Luther H. Caskey, Martinsburg. 11-15

### Stores

Ark., Little Rock—J. M. Stannus has permit for \$28,000, 1-story, brick building; J. H. Leveck & Son, Glover Bldg., Contrs.

Ga., Atlanta—Walter R. Brown, 100 1/2 Hunter St., S. W., let contract to Norwood Griffin Co., Bona Allen Bldg., for 2-story and basement, 29x100-ft., brick, cast stone trim store, Pryor and Hunter Sts., S. E.; terrazzo, conc. and wood floors; Augustus Constantine, Archt., Candler Bldg. 3-7

La., New Orleans—Oneida O. Tourne and Continental Building and Loan Assn., United Fruit Bldg., let contract to James C. Tourne, 4237 Fontainebleau Drive, for \$10,000 building, Salcedo and Fontainebleau Sts.

Miss., Laurel—Mrs. Alice O'Ferrell, Jackson, erect 2-story store and office building, Oak and Magnolia Sts.; W. M. Carter, Contr., Front St.

Mo., University City, St. Louis—S. W. Haigler, 6624 Delmar Blvd., erect \$10,000, 2-story, 36x66 ft., brick store and flat, 7643 Delmar Blvd.; built-up asphalt roof, hot water heat; Berkley Construction Co., 6625 Delmar Blvd.; Ferrand & Fitch, Archt., 6188-A Delmar Blvd.

Okla., Tulsa—L. A. Troup has low bid at \$52,582 from R. M. Gillilan, 1418 E. Sixth St., for 1 and 2-story and basement, brick and rein. conc. building; Cross & Duggan, Archts., 114 E. Second St. 2-14

S. C., Rock Hill—W. G. Reid & Son, furniture dealers, completed excavation for \$20,000, 40x100 ft., 2-story, steel, brick and stone store on E. Main St.; J. E. Healan, Contr.; J. S. Starr, Archt. See Want Section—Building Material and Equipment. 3-14

Tex., Amarillo—The Fred Bone Construction Co., Amarillo Bldg., started work on 6-story building to be leased to Sears, Roebuck & Co., P. D. MacQuiston, Retail Regional Office, Dallas. 3-7

Tex., Corpus Christi—J. L. Tribble & Son, Inc., Tribble Bldg., started work on \$16,000, 100x60 ft., brick and tile, 5-store, Mesquite and Williams Sts.; J. W. Birmingham, Contr., Amusu Bldg.

Tex., Dallas—Sam Lobello, 5731 Marquita St., started work on 170x80 ft., 5-store building, Greenville Ave. and Prospect St.; F. J. Woerner & Co., Central Bank Bldg., Archts., supervise construction.

Tex., Dallas—T. P. Finnegan started work on 6-store building, Oak Lawn Ave. and Rawlins St.; 127-ft. frontage, brick, stone and tile trim, slate roof; F. J. Woerner & Co., Central Bank Bldg., Archts., supervise construction.

Tex., San Angelo—Baker-Hemphill Co., W. M. Hemphill, Pres., let contract to Robert E. McKee Construction Co., 1916 Texas St., El Paso, for \$200,000, 5 story and basement, 75x110 ft., rein. conc., brick and stone department store, W. Beauregard Ave. and Irving St.; 2 passenger and one freight elevator, steam heat; Anton F. Korn, Archt., 816 Thomas Bldg., Dallas; B. M. Morgan, Asso. Archt., San Angelo Natl. Bk. Bldg. 1-10

Tex., New Braunfels—C. J. Ludewig started work on \$20,000 store; A. C. Moeller, Contr.

Tex., San Antonio—Dr. H. H. Ogilvie, Medical Arts Bldg., let contract to Fred Schutte, 512 Devine St., for 1-story brick and conc. store, Fifth St. between Avenue E and N. Alamo St.; Harvey P. Smith, Archt., Natl. Bk. of Commerce St. 3-7

Va., Bristol—Joseph Strauss erecting \$40,000, 2-story, 66x158 ft., brick and terra cotta store, 801-05 State St., to be occupied by Montgomery Ward & Co., Chicago; equip with elevator and Thermomine Unit heaters; T. G. Martin & Sons, Contrs.; G. M. & G. C. Stone, Archt.

Va., Waynesboro—Lambert, Barger & Branaman completed excavation for 3-story, 206x62 ft. store and office building, Main St. and Wayne Ave.; Harry Brooks, Contr. 2-28

### Theatres

Tex., Fort Stockton—S. C. Johnson erect 50x130-ft. moving picture theater to be leased to Oscar Korn; contract let.

Tex., Taft—Hall Brothers Industries, Beeville, erect \$15,000, 25x100 ft., hollow tile and stucco theater on Green Ave.; Cage Hardware & Lumber Co., Contr.

### Warehouses

N. C., Rocky Mount—I. W. Mangum, 424 Falls Road, let contract to D. J. Rose & Son, 255 Falls Road, for \$80,000, 1-story, 170x411 ft., brick tobacco warehouse; steel roof trusses, tin roof, wood and conc. floors; Benton & Benton, Fidelity Bldg., Archts., Wilson; all material purchased and sub-contracts let. 3-7

Tex., Corpus Christi—Crane Co., Chicago, South Texas headquarters, San Antonio, has permit for \$14,000, 95x100 ft., galvanized iron warehouse on Gavilan St.; Fred W. Townsend, Contr., Palace Theater Bldg.; William Westfall, Archt., Nixon Bldg. 1-31

Tex., Houston—Bernard Realty Co. has permits for \$35,000, 112x250 ft., brick and rein. conc. warehouse in 2300 block Polk Ave. and \$17,000 warehouse, Harrisburg Blvd. and Velasco St.; Damon Wells, Contr., Chronicle Bldg.

### Trade Literature

**Miscellaneous.**—Zelnicker's bulletin No. 375 for 1929 starts the thirty-first year of service by Walter A. Zelnicker Supply Company, St. Louis, Mo., and describes large amounts of new and used rails, spikes, frogs and other railroad material in stock; steel sheet piling, new and reconditioned and used; oil engines of various types; railroad contractors' equipment; heavy machinery, air compressors, machine shop equipment, transformers and many other articles. Zelnicker also distributes and services several lines of shovels, cranes, buckets, steam locomotives, gear drive gasoline locomotives, quarry, dump and ballast cars and electric plants for farm, home and industrial uses.

**Twisted Service Cable.**—A new booklet on Twisted Service Cable has been issued by the Okonite Company, Passaic, N. J., for the use of all electrical operating executives. It contains complete descriptions of house service and street lamp connections, and shows how this cable is used and installed. There is a special section on specifications, with a detailed table of weights and sizes. The booklet was edited by W. K. Vanderpool, vice-president and executive engineer of Okonite.

**Fire Pumps.**—Electric centrifugal fire pumps, described as approved by the National Board of Fire Underwriters by the Associated Factory Mutual Fire Insurance companies and state and municipal fire bureaus, are depicted in bulletin No. 104 of the Chicago Pump Company, Chicago, sewage, condensation, circulating, bilge, fire, house and vacuum pumps. Diagrams, specifications and other data are given in detail.

**Ropes.**—Prize pictures showing Yellow Strand Powersteel or other B. & B. wire rope in actual use form an interesting feature in the March issue of "The Yellow Strand," published by the Broderick & Bascom Rope Company, St. Louis, Mo. Other interesting illustrations and articles include "The History of Wire Rope," "A Great Cascade Tunnel Opened" and "Spruce Log Buried 200 Years."

**Condensers.**—Full description of the Chicago-Byermetric condenser is given in catalog 718 of the Chicago Pneumatic Tool Company, New York, which says the device can be used in any process requiring vacuum, during which steam or vapor is given off. Diagrams and pictures illustrate the description.

### All About Texas.

From the Dallas News, "the oldest business institution in Texas," appears the Texas Almanac and State Industrial Guide for 1929, published by that paper. The volume is filled with a large amount of information, on a wide range of subjects, and is designed to go far toward arousing real interest in the state by outsiders. The price is 50 cents, or 60 cents by mail.



# WANT SECTION

## THE CLASSIFICATIONS IN THIS SECTION ARE:

### Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

### Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

### Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

### Machinery and Supplies

**Air Receiver.**—Guyan Machine Shops, B. Shell, Pres. and Mgr., Logan, W. Va.—Want prices and data on air receiver, about 48x 96-in., for 150-lb. pressure.

**Crawlers.**—Shreveport Machinery Sales Co., L. E. Bradt, Mgr. (Machinery-Contractors Equipment), 936 Louisiana Ave., Shreveport, La.—Wants prices and data on crawlers on which to mount machine weighing 12,000 lb. approx. 6-ft. centers both in width and length, for unloading gravel or other material from open top cars; crawler to be capable of making 3½ to 4 mi. per hour on its own power.

**Creamery Equipment.**—Mayor Guy Body, Collinston, La., and others organizing company to operate creamery, and want prices and data on complete equipment.

**Engine.**—W. M. Smith & Co., Sam Smith (Railroad and Logging Equipment), Birmingham, Ala.—Want prices and data on Erie City engine, 16x18 or 14x16, 2 fly wheels, 14-in. x 6-ft.

**Fullers Earth Processing Equipment.**—Choctaw Clay Corp., 608 Marquette Bldg., New Orleans, La.—Wants prices and data on machinery and equipment for processing fullers earth for market.

**Heaters and Washed Air System.**—Robert & Co., Inc. Engrs., Bona Allen Bldg., Atlanta, Ga., unit engineers for Walter Fred Hosiery Mills, Inc., Nashville, Tenn.—Want data from companies making unit type heating system combined with washed air system for mill under construction.

**Locomotive.**—R. P. Johnson (Mchy. Dealer), Wytheville, Va.—Wants prices and data on light, 36-in. gauge, gas locomotive, 2½-ton preferred.

**Metal Shaping Machinery.**—James Shannon, 915 S. 31st St., Birmingham, Ala.—Wants prices and data on machine for making garbage cans.

**Scale (Portable).**—Box Crane and Hoist Corp., G. A. Mitchell, Sec. and Sales Mgr., Trenton Ave., E. Ontario and Tioga St., Philadelphia, Pa.—Wants prices and data on portable scale, 15 to 20-ton capacity, to be hung on crane hook.

**Motor (Slip Ring).**—Collins Durax Co., Geo. R. Collins, Salisbury, N. C.—Wants prices and data on 25-h.p., slip ring motor, 3 phase, 60 cycle, 220 volt, used.

**Vacuum Driers.**—H. F. Wray, 6505 Central Ave., Brooklyn, N. Y.—Wants prices and data on vacuum driers, such as those used in making powdered milk.

**Dempster Construction Co., Inc., Geo. R. Dempster, Pres., Knoxville, Tenn.**—Wants prices and data on following used equipment:

- (1) Cars—six 4-yd., steel beam, 2-way dump
- (2) Compressor—Sullivan oil driven, about 1000 or 1200-ft. capacity
- (3) Locomotives—two 8-ton, 36-in. gauge, gas driven
- (4) Hammer (Steam)—1000 to 1500-lb.
- (5) Sharpener (Drill)—Sullivan.

**Pippin, Inc. (Furniture, Chairs, Novelties), M. F. Grote, Pres., Zebulon, N. C.**—Wants prices and data on following:

- (1) Paint and Finishing Material—including equipment
- (2) Woodworking Machinery—general line, suitable for chairs and novelties.

**O. L. Miller, Harrisburg Road, Houston, Tex.**—Wants following:

- (1) Drag Saw Rig (Circular)
- (2) Re-saw (Band)—carrying 6 or 7-in. blade, with feed roll opening of 20 in. or more, used, good condition.

### Miscellaneous.

**Chair Bottoming Material.**—Pippin, Inc. (Furniture, Chairs, Novelties), M. F. Grote, Pres., Zebulon, N. C.—Wants prices and data on cane, rush and other chair bottoming material.

**Pole (Steel).**—Commercial Hotel, S. O. Weaver, Mgr., Gainesville, Fla.—Wants prices and data on steel pole, 150 or 160 ft. high.

**W. M. Smith & Co., Sam Smith (Railroad and Logging Equipment), Birmingham, Ala.**

—Want prices and data on following:

- (1) Angle Bars—10 to 20 tons, for 85-lb. rails, 7-4-7 punching
- (2) Rails (Relay)—5 track mi., 45 to 56-lb., delivery to South Carolina.

### Building Material and Equipment

**R. H. Tuggle, Draftsman, Aberdeen, Miss.**—wants prices on following for \$50,000 hospital:

Flooring—terrazzo  
Roofing—asbestos shingle  
Tile—gypsum  
Ventilators.

**Capital Fireproofing Construction Co., Inc., 1727 Fleet St., Baltimore, Md., and Vermont Bldg., Washington, D. C.**—wants prices on following for dwelling:

Roofing—slate  
Tile—bath.

**Franklin O. Adams & J. M. Hamilton, Archts., 509 Twigg St., Tampa, Fla.**—want prices on following for dwelling:

Flooring—hardwood, tile  
Marble  
Roofing—tile  
Tile—hollow.

**Will N. Noonan Co., Archt., Builders Exchange Bldg., San Antonio, Tex.**—wants prices on following for \$18,000 apartment for W. S. Mial:

Cast Stone  
Electric Refrigerators  
Flooring—hardwood, tile  
Roofing—built-up  
Tile—hollow.

**Jos. Peters, Bldr., 3119 Myrtle Place, Baltimore, Md.**—wants prices on following for 41 dwellings:

Flooring—hardwood, linoleum, terrazzo, tile

Mail Chutes  
Roofing—built-up  
Tile—gypsum.

**Wm. D. Siclen, Archt.-Engr., 9 Maltby Bldg., Brownsville, Tex.**—Wants prices on following for \$35,000 box ranch clubhouse, Point Isabel, Tex., for Point Isabel Development Co.:

Electric Refrigerators  
Flooring—hardwood  
Roofing—built-up.

**Dielmann and Levy, Archts. and Engrs., Corpus Christi, Tex.**—want prices on following:

Airplane Hangars  
Hardware Door  
Trusses (Roof).

**A. R. Robertson & Co., Mt. Sterling, Ky.**—Wants prices on following for 1-story, 200x 216-ft. warehouse:

Flooring—composition  
Roofing—built-up  
Sand Glass.

**Emmett T. Jackson, Archt., Bldr. Exch. Bldg., San Antonio, Tex.**—wants prices on following for \$90,000 library and recreation building:

Flooring—tile  
Roofing—tile  
Steel Sash and Trim  
Tile.

**Ed. Warnken, Contr., 707 S. Eighth St., Temple, Tex.**—Wants prices on following for \$30,000 apartment for Geo. P. Connerty:

Beds—In-a-Door  
Electric Refrigerators  
Flooring—linoleum, tile  
Mail Chutes.

**P. Nicoletti, 848 Orleans St., Beaumont, Tex.**—Wants prices on following for building for stores and 27-room hotel:

Electric Wiring  
Electric Refrigerators  
Gas and Electrical Appliances  
Flooring—hardwood, linoleum, terrazzo, tile, composition  
Furniture  
Incinerator  
Metal Ceilings  
Metal Boards  
Plaster Board

**Plumbing Roofing (flat)**—built-up, tile  
Tile—hollow  
Terra Cotta Trim  
Ventilators  
Wire Glass

**W. G. Reid & Son, Rock Hill, S. C.**—Want prices on following for \$20,000 store:

Elevators  
Flooring—tile  
Limestone  
Marble  
Metal Ceilings  
Wire Glass.

**John W. Cowper Co., Inc., State Planters Bank Bldg., Richmond, Va.**—estimating on Edward Katzinger building, Baltimore, Md., and desires prices on sub-contract work and material, bids Mar. 28; Lockwood Greene Engineers, Inc., 40 N. Michigan Ave., Chicago, Ill.

### Bids Asked

**Athletic Stockings.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Mar. 26 for furnishing 1,000 pairs athletic stockings, delivery to Philadelphia, Pa.

**Bituminous Materials.**—Baltimore, Md. See Construction News—Roads, Streets, Paving.

**Boilers and Breeching.**—Frank H. Chisholm, Engr., 622 S. Peters St., New Orleans, La.—Bids Mar. 26 for furnishing, erecting and entire completion of 3 high-pressure boilers and breeching for Charity Hospital of Louisiana, New Orleans, La.

**Bridge.**—Princess Anne, Va. See Construction News—Bridges, Culverts, Viaducts.

**Bridges.**—State of Arkansas—Bids for 38 bridges. See Construction News—Roads, Streets, Paving.

**Bridges.**—State Highway Dept., Dover, Del.—Bids April 9 for 2 bridges: Replacement of Garrison's Mill—Bridge and Roadway, Cont. 2D—1,325 cu. yd. excavation and borrow, 21,500 lb. reinforcement, 2,800 lin. ft. timber piling; Milford Bridge—Steel Superstructure, Cont. 104B—210,000 lb. struct. steel, 10,000 lb. machinery, 5,000 lb. rein. steel, one 15 H. P. electrical equipment, operator's house.

**Bridges.**—State of Kentucky—Bids for 2 bridges. See Construction News—Roads, Streets, Paving.

**Bridges.**—State of Tennessee—Bids for 22 bridges. See Construction News—Roads, Streets, Paving.

**Bridge.**—Pascagoula, Miss. See Construction News—Bridges, Culverts, Viaducts.

**Bridges.**—Cumberland, Md.—Bids for 2 bridges. See Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—Knoxville, Tenn. See Construction News—Bridges, Culverts, Viaducts.

**Bridges, etc.**—State of South Carolina—Bids for 5 bridges and culverts. See Construction News—Roads, Streets, Paving.

**Bulkhead Repairs.**—Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C.—Bids Apr. 3 for repairs to bulkhead at naval radio station, Jupiter, Fla.

**Burlap (Jute).**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Mar. 25 for furnishing 20,000 yd. jute burlap, delivery Philadelphia, Pa.

**Cofferdam, etc.**—U. S. Engineer Office, Nashville, Tenn.—Bids Mar. 30 for cofferdam complete, including 2 culvert gates, also for 1 set (11) steel needles.

**Concrete Pits (Rifle Range).**—Bureau of Yards and Docks, Navy Dept., L. E. Gregory, Ch., Washington, D. C.—Bids March 27 for alterations to concrete pits at Naval Academy (Rifle Range), Annapolis, Md.; specification No. 5802 on application to Bureau or Supt., Naval Academy.

**Counters.**—Supervising Archt., Treasury Dept., Washington, D. C.—Bids Apr. 2 for furnishing and installing new additional counters in basement shed, north court of U. S. Treasury Bldg., Washington.

**Dredging.**—U. S. Engr. Office, 300 Custom House, Baltimore, Md.—Bids April 1 for dredging approx. 25,000 cu. yd. of material in Tangier Channel, Va.

**Dynamite, etc.**—Humphreys County Bd. of Supvrs., A. R. Hutchens, Clk., Belzoni, Miss.—Bids April 1 for furnishing dynamite and caps for exploding same, for Road Dist. No. 2.

**Fill.**—Belzoni, Miss. See Construction News—Roads, Streets, Paving.

**Fire Extinguishers.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Mar. 28 for furnishing 500 fire extinguishers, delivery Philadelphia, Pa.

**Gasoline and Kerosene.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Mar. 25 for 4,500 gal. gasoline and 2,700 gal. kerosene, in 5-gal. tins, delivery New Orleans, La.

**Gravel.**—State of Arkansas. See Construction News—Roads, Streets, Paving.

**Gravel.**—Belzoni, Miss. See Construction News—Roads, Streets, Paving.

**Levee.**—I. Predeckl, County Auditor, Galveston, Tex.—Bids April 8 for building earthen levee protection work, together with necessary drainage and drainage structures, at Texas City, Tex.

**Lock.**—U. S. Engr. Office, P. O. Box 72, Louisville, Ky.—Bids Mar. 26 for constructing auxiliary lock at lock and dam No. 41, Ohio River.

**Lumber.**—County Commrs. of Duval County, Jacksonville, Fla.—Bids Apr. 1 for furnishing approx. 40,000 ft. long leaf, prime grade, fine grain, yellow pine lumber, dressed on four sides, delivery to Duval County Prison Farm, Jacksonville, Fla.

**Lumber.**—J. R. Brumby, Jr., Commr. of Public Works, Sarasota, Fla.—Bids April 1 for lumber, cypress and hard heart pine.

**Miscellaneous.**—Gen. Pur. Officer, Panama Canal, Washington, D. C.—Bids Apr. 8 for following Sch. 1953:

**Steel, sewer pipe, iron or steel pipe, boiler tubes, pig-iron, road roller, metal bed and springs, water coolers, hinges, hooks, twine, cover paper, etc.**

**Machine (Valve Facing).**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Mar. 28 for furnishing valve facing machine, delivery to Quantico, Va.

**Paving.**—Richmond, Va. See Construction News—Roads, Streets, Paving.

**Paving, etc.**—Senatobia, Miss. See Construction News—Roads, Streets, Paving.

**Pipe (Cast Iron).**—See Water Works.

**Pumping Station Equipment.**—Bd. of Awards, Baltimore, Md.—Bids March 27 for furnishing and installing station equipment at Guilford pumping station; E. G. Rost, Water Engr.

**Reservoir.**—See Water Works.

**Road.**—New Orleans, La. See Construction News—Roads, Streets, Paving.

**Road.**—Paducah, Ky. See Construction News—Roads, Streets, Paving.

**Road.**—Belzoni, Miss. See Construction News—Roads, Streets, Paving.

**Road.**—Ashland, Miss. See Construction News—Roads, Streets, Paving.

**Roads.**—State of Arkansas—Bids for 4 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—State Highway Dept., Dover, Del.—Bids April 9, for 2 roads: 4.77 mi. Law's School-Harrington road, Cont. No. 113—22,500 cu. yd. excavation and borrow, 100 tons broken stone course, 4,200 cu. yd. cement conc. paving, 1,500 lb. reinforcement; 5,500 lin. ft. wood shoulder curb; 3.73 mi. Laurel-Independence School road, Cont. No. 120—11,500 cu. yd. excavation and borrow, 50 tons broken stone base course, 4,400 cu. yd. cement conc. pavement, 2,000 lin. ft. wood shoulder curb.

**Roads.**—State of Kentucky—Bids for 12 roads. See Construction News—Road Proposed.

**Roads.**—State of Maryland—Bids for 11 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—State of Tennessee—Bids for 12 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—State of Arkansas—Bids for 5 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—State of Virginia—Bids for 3 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—State of South Carolina—Bids for 6 roads. See Construction News—Roads, Streets, Paving.

**Road Building Material.**—Louisiana Highway Comm., Baton Rouge, La.—Bids Mar. 26 for furnishing washed and screened gravel, 40% sand-clay gravel, 50% sand-clay

gravel, reef shell, clam shell, crushed limestone, slag and sand.

**Rope (Manila).**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Mar. 27 for 25,000 lb. manila rope, delivery Philadelphia, Pa.

**Sidewalks.**—Natchitoches, La. See Construction News—Roads, Streets, Paving.

**Sewers.**—Jefferson City, Mo.—Bids April 1 for labor and material for sewers in Dist. No. 43; work includes 6 and 8-in. sewer pipe, manholes, etc.; F. E. Ross, City Engr.

**Sewers.**—City of Houston, Tex.—Bids Mar. 27 for storm sewer in ditch on Chartres St., between Blodgett and Cleburne Aves.

**Street.**—New Orleans, La. See Construction News—Roads, Streets, Paving.

**Street.**—Baltimore, Md. See Construction News—Roads, Streets, Paving.

**Street.**—Birmingham, Ala. See Construction News—Roads, Streets, Paving.

**Streets.**—San Antonio, Tex. See Construction News—Roads, Streets, Paving.

**Street.**—Clarksburg, W. Va. See Construction News—Roads, Streets, Paving.

**Street.**—Louisville, Miss. See Construction News—Roads, Streets, Paving.

**Tank and Tower.**—See Water Works.

**Tank and Tower (Water).**—U. S. Property

& Disbursing Officer for Louisiana, 729 St. Charles St., New Orleans, La.—Bids Apr. 15 for steel water tower and water tank.

**Telephone System.**—Constr. Div., Veterans Bureau, Washington, D. C.—Bids Apr. 2 for complete installation of dial telephone system at U. S. veterans hospital, Alexandria, La.

**Trumpets and Whistles.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Mar. 26 for furnishing 400 trumpets and 500 whistles, non-commission officers', delivery Philadelphia, Pa.

**Waste (Cotton).**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Mar. 27 for 16,000 lb. cotton waste, delivery Philadelphia, Pa.

**Water Bottles and Coolers.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Mar. 27 for 100 water bottles and 50 water coolers, delivery Philadelphia, Pa.

**Wire Cloth (Copper).**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Mar. 26 for furnishing 200,000 sq. ft. copper wire cloth, delivery Philadelphia, Pa.

**X-Ray Equipment.**—Commr. District of Columbia, Washington, D. C.—Bids April 1 for X-ray equipment for Gallinger Municipal Hospital.

## INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

### U. S. Steel in 1928.

Measured by the tonnage of finished products produced for sale, the mills of the subsidiary companies of the United States Steel Corporation operated through 1928 at an average of 83.4 per cent capacity, in comparison with an average of 78.9 per cent for the preceding year, says the annual report of the directors, headed by J. P. Morgan, chairman, and James A. Farrell, president. Prices for 1928 were fairly well maintained, but not appreciably above the low point reached in 1927. The country's production of steel in 1928 reached about 51,500,000 tons of steel ingots and castings, a record production, exceeding by 3,333,000 tons the previous high record, made in 1926, the report adds. Net income for 1928 was \$126,067,623; interest and premium payments, \$18,064,637; special income, \$6,170,788; stock dividends, \$75,033,322, and surplus net income, \$39,140,452. The total value of business transacted by all companies during the year 1928, as represented by their combined sales and earnings, equalled the sum of \$1,374,443,433, compared with \$1,310,392,861 in the previous year.

### Rome Wire Representatives.

The Rome Wire Company, Rome, N. Y., division of General Cable Corporation, whose Mobile plant is called "the South's own wire mill," has the following representatives in the South: J. A. Peacock, Healey Building, Atlanta; W. D. Hampton, First National Bank Building, Charlotte, N. C.; M. L. Tice, Watts Building, Birmingham; Jenkins & Gunther, Santa Fe Building, Dallas. Edwin L. Andrew heads the sales promotion.

### Moore Kilns Installed.

The Peerless Flooring Company, High Point, N. C., has installed a hardwood kiln, to be used in seasoning high-grade oak flooring, the equipment being furnished by the Moore Dry Kiln Company, Jacksonville, Fla., and North Portland, Ore. Also, the United Furniture Company, Lexington, N. C., has installed a Moore hardwood kiln for seasoning various classes of hardwood for high-grade furniture.

### International Cement.

In the tenth annual report to the stockholders of the International Cement Corporation, New York City, President Holger Struckmann gives the net consolidated income for 1928 as \$5,149,388, compared with \$4,554,172 for 1927, while over \$2,675,000 was paid in dividends last year. Among capital expenditures of \$10,750,000 were purchase of the Phoenix Portland Cement Company, Nazareth, Pa., and of the Warrior Cement Corporation's property at Spocari, Ala., and much construction work. Productive capacity at the close of the year was in excess of 20,000,000 barrels annually, an increase of 3,800,000 over 1927. The foreign subsidiaries enjoyed a prosperous year.

### National Life and Accident.

Widely known as "The Shield Company" and describing its industrial health and accident business as "the largest in force in the world," the National Life and Accident Insurance Company, Inc., Nashville, Tenn., presents its report in the advertising pages of the MANUFACTURERS RECORD this week. Assets at the close of 1928 are given as \$23,404,791, an increase of \$12,572,000 over 1923; liabilities in 1928 as \$18,777,373; paid policyholders, \$64,384,039, compared with \$35,121,000 in 1923. Total life insurance in force at the close of 1928 was \$272,137,235, an increase of \$137,835,834 over 1923.

### New Prest-O-Lite Plant.

The thirty-ninth acetylene gas plant of the Prest-O-Lite chain, Houston, Texas, has started operations and will supply dissolved acetylene for welding and cutting to local industry. A. J. Harrower is superintendent of the new plant and H. F. Sautter, at the Dallas plant, is district superintendent.

### Carborundum Building.

Invitations have been extended by the Carborundum Company, Niagara Falls, N. Y., to those who may care to visit the New Carborundum Building, 2759 East Grand Boulevard, Detroit. The formal invitation carries a picture of the structure.



**"The Beckoning Land."**

Pictured as "The Beckoning Land," Virginia is described in an attractive booklet by that title with a foreword by Governor Harry Flood Byrd and published by the Virginia Commission on Conservation and Development, Richmond. History of the past is interwoven with opportunity for the present and future, and illustrations add to the value of the booklet.

**To Enlarge Tenual Production.**

The National Bronze and Aluminum Foundry Company, Cleveland, Ohio, which developed and patented a new and radical method of producing aluminum free from oxides and introduced it under the name of Tenual, has broken ground for an addition to its plant, to increase present capacity by 30 per cent. A good deal of the equipment has been purchased, but more will be needed.

**Aluminum Shop Crane.**

The Alliance Machine Company, Alliance, Ohio, has received an order from the Aluminum Company of America for a 10-ton traveling shop crane, the main girders of which will be constructed from strong aluminum alloy. This use of aluminum will materially reduce the wheel load on the building. The aluminum crane will be installed in the new structural shape mill at the Massena works.

## 15,000-KILOWATT GENERATING STATION ANNOUNCED FOR OKLAHOMA.

### Oklahoma Gas and Electric Company to Build Plant on Arkansas River.

J. F. Owens, vice-president and general manager of the Oklahoma Gas & Electric Co., Oklahoma City, announces the construction of a new generating station on the Arkansas River, near White Eagle, Okla. The station, named in honor of Lincoln Beerbower, recently deceased, who was a member of the company for 25 years and manager of the Northern Division with headquarters at Enid for the past 18 years, will have an initial generating capacity of 15,000 kilowatts. It is intended to meet the increased requirements for electrical energy in the Enid territory, intensified by the recent location there of flour mills and other industries. The plant will use 23,000 gallons of water per minute in the operation of its turbine, with additional water requirements when more units are added.

It is understood that a site for the plant has been secured and that equipment has been ordered, including high pressure steam-driven turbines, super-heaters, pre-heaters for heating air used under the boilers, and evaporators to eliminate water impurities and resulting boiler scale. Water from the river will be diverted through the plant by a reinforced concrete tunnel and the original installation will burn petroleum coke. When this is not available, powdered coal will be substituted and blown under pressure and burned as a gas. Current will be generated at 13,800 volts and stepped up through transformers to 66,000 volts. Two high voltage, heavy duty transmission lines will connect the plant to Enid and a third line will connect the station to the company's power plant and transmission system, on which are major generating stations at Horseshoe Lake, near Harrah; Riverbank, near Muskogee, and Byng near Ada, in addition to 15 auxiliary stations located throughout the state.

Incidental to the plant, construction will include approximately two miles of railroad track, to connect with both the Rock Island and Santa Fe railroads. With the completion of the station, the total generating capacity of the company will be increased from 144,260 kilowatts to 159,260 kilowatts, and aside from its own generating facilities, it has transmission line connections with the systems of the Kansas Gas & Electric Co., Mississippi Valley Power Company in Arkansas, Public Service Company of Oklahoma, Southwestern Light & Power Co. and the Sand Springs Light & Water Co.

### Chicago Students Visit Virginia.

The Virginia State Chamber of Commerce announced that 100 students from New Trier High School, Chicago, on a two-day visit in Virginia, will arrive at Charlottesville on March 25, and spend the night in Richmond. The party will see Jamestown, Yorktown and Old Point the next day and from Virginia will go to Baltimore and then home. This is the first of 12 tours brought to Virginia through the co-operation of the Chesapeake and Ohio and the Pennsylvania railroads. The State Chamber of Commerce is making special efforts to attract large parties to Virginia, and already 19 groups have been interested in such visits.

### Heavier Deposits.

The State Bank of Orlando and Trust Company, Orlando, Fla., as illustrating the improved business and financial conditions in Florida, advises the MANUFACTURERS RECORD that in February it had the biggest increase in deposits of any February, except 1925, during more than 30 years in which this bank has been in operation.

### Palm Beach to Vote on \$450,000 Bonds.

Palm Beach, Fla.—Mayor Barclay H. Warburton and the town council have called an election for March 30 on bonds in the amount of \$450,000 for public improvements. An election will be held the same date on a proposal to grant the Florida Power & Light Co. a 30-year franchise for street lighting.

### New Insurance Company for Kentucky.

The Atlas Life and Accident Insurance Co., of Campbells-ville, Ky., was recently organized with a paid in capital of \$100,000 and a paid in surplus of \$50,000, to write industrial life, health and accident insurance in Kentucky. Temporary offices have been provided in a block of buildings purchased by the company and during the latter part of the year a building will be remodeled for permanent offices. It is planned to extend the operations of the company into other Southern states.

### Memphis Banks Merge With \$11,200,000 Capital.

Memphis, Tenn.—Directors and stockholders of the Union Planters Bank & Trust Co. and the Manhattan Savings Bank & Trust Co., both of this city, formally voted to consolidate the two institutions, making the new organization one of the largest of its kind in the South. The capitalization of the consolidated bank will be \$11,200,000, it is said, and its resources \$51,000,000. Final details of the merger are expected to be worked out soon, so that both banks may operate under their new status. Frank Hayden is president of the consolidated organization.

### \$100,000,000 Resources in St. Louis Bank Merger.

St. Louis, Mo.—The State National Bank will join the Mississippi Valley Trust Co. and the Merchants-Laclede National Bank in a consolidation for the organization of the Mississippi Valley Merchants' State Trust Co., making the new bank one of the largest in St. Louis. It will have resources of approximately \$100,000,000, capital stock of \$6,000,000, surplus of \$2,500,000 and undivided profits of \$1,100,000. Edward B. Pryor, president of the State National Bank, will become chairman of the executive committee; George E. Hoffman, president of the Merchants-Laclede, will be chairman of the board of directors, and J. Sheppard Smith, president of the Mississippi Valley Trust Co., will be president of the new company.

A tabulation of bids by the Constructing Quartermaster at Fort Bliss, El Paso, Tex., for the erection of 50 sets of non-commissioned officers' quarters, indicates that Hayward & Betzel, El Paso, are the low bidders at \$258,475.

# FINANCIAL NEWS

## Bond Issues Proposed

Ala., Tusculumbia—School—City, I. L. Hay, Ck., reported, votes Mar. 26 on \$40,000 bonds. Lately noted election Mar. 18. 2-28

Arkansas—State Legislature, Little Rock, passed bill providing for \$3,250,000 bond issue, to purchase site and erect buildings for new State Hospital for Nervous Diseases, and for additional buildings for Tuberculosis Sanatorium.

Ark., Magnolia—Columbia County, Emmett Atkinson, County and Probate Judge, voted \$55,000 bonds to repair courthouse and build jail. 1-24

Fla., Fort Lauderdale—Road, Canals—Broward County Highway Dept., plans \$350,000 bond issue.

Fla., Lake Placid—General Improvement—Town, J. E. Sims, Mgr., plans offering at private sale at once, \$195,000 bonds.

Fla., Leesburg—Refunding—City, W. E. Harkness, Ck., receives bids Apr. 8 for \$112,000 \$1000 denom. not to exceed 6% bonds. Lately noted bids Mar. 11. 3-7

Ga., Griffin—School—City votes soon on \$1,000,000 bonds, L. M. Lester, Sec. Bd. of Education.

Ga., Griffin—City votes Apr. 24 on \$284,000 bonds; \$184,000, water works; \$100,000, school.

Ga., Waycross—Hospital—Ware County defeated \$250,000 bond issue. 1-24

Kentucky—State Highway Comm., Frankfort, reported, failed to receive any bids for \$10,258,000 toll bridge bonds; bids opened Mar. 15. 2-14

Ky., Grayson—Town, Thos. L. James, Ck., receives bids Apr. 1 for \$20,000 bonds.

La., Bastrop—City considering \$75,000 bond election; \$50,000 hospital; \$25,000 airport. 3-7

La., Franklinton—Franklinton School Dist., Washington Parish, plans voting Apr. 2 on \$125,000 bonds; D. H. Stringfield, Supt. Parish School Bd. 2-28

La., Oak Ridge—Water—Town votes Apr. 16 on \$10,000 bonds.

La., Winnsboro—Franklin Parish School Bd., John L. McDuff, Sec., receives bids Apr. 5 for \$100,000 School Dist. Ward No. 1 bonds; bidders to name rate of interest.

Maryland—Albert C. Ritchie, Governor, plans recommending to Legislature amendment to pending \$1,000,000 bridge loan, to increase bond issue to \$1,500,000 for 2 bridges; James M. Dennis, State Treas.

Md., Rockville—Montgomery County Commrs. introduced a bill asking legislative authority to issue \$475,000 bonds for construction and equipment of public schools in county.

Md., Rockville—Legislature considering bill providing for \$1,709,000 bonds in Montgomery County: \$782,000, 5%, road; \$697,000, to pay State Roads Comm. for road construction; refund County treasury; permanently finance temporary loans; \$200,000, road; \$30,000, for deficiency in cost of erecting police stations.

Miss., Goodman—Sewer—City, W. J. Holm, Mayor, votes Mar. 25 on \$20,000 bonds.

Miss., Jackson—City, Walter A. Scott, Mayor, voted \$675,000; \$350,000, school; \$175,000, water works; \$50,000, street; \$50,000, sewer; \$50,000, fire alarm system. 2-14

Miss., Pascagoula—Orange Lake Consolidated School Dist., Jackson County, votes Mar. 30 on \$20,000 bonds.

Miss., Vicksburg—Warren County Bd. of Supvrs., J. G. Sherard, Ck., receives bids Apr. 1 for \$20,000 4% 1/2 \$400 denom. Agricultural High School bonds.

Mo., Appleton City—Paving—City plans \$24,000 bond issue.

Mo., Maryville—School—City votes Mar. 28 on \$185,000 bonds.

Mo., Salem—Electric Light—City votes April 2 on \$25,000 bonds.

Mo., St. Joseph—School Bd., F. H. Barbee, School Supt., plans selling \$250,000 bonds about May 1; \$500,000 bonds in August; remainder at six-month intervals.

Mo., Springfield—Sewer—City contemplates bond election; C. A. Dickerson, City Ck.

N. C., Bessemer City—Bd. of Education, R. R. Caldwell, Sec., receives bids at Gastonia, N. C., Apr. 1 for \$40,000, Bessemer City Grade School Dist. bonds. 2-21

N. C., Chapel Hill—School—City votes Apr. 23 on \$15,000 bonds. 2-21

N. C., Fayetteville—Funding and Refund-

ing—Cumberland County receives bids Mar. 23 for \$700,000, not to exceed 5 1/2% bonds.

Okla., Carter—Beckham County Consolidated School Dist. No. 50, G. C. Mitchell, Dist. Ck., receives bids Mar. 25 for \$27,000 bonds. 2-21

Okla., Dewey—Bd. of Education considering \$15,000 bond election in Dewey School Dist.

Okla., Goltzy—Municipal Building—City, G. R. Newby, Ck., voted \$15,000 6% bonds. 2-14

Okla., Pawhuska—Airport—City, Charles Gilbert, Mayor, defeated \$50,000 bond issue; probably vote again. 2-14

Okla., Tulsa—Fair Ground Building—Tulsa County plans voting on \$500,000 \$1000 denom. bonds.

S. C., Anderson—Legislature authorized Anderson County to issue \$58,000 5% flood damage notes.

S. C., Abbeville—Abbeville County plans issuing \$180,000 5 1/2% reimbursement bonds.

S. C., Chesterfield—Legislature passed bill authorizing Bd. of School Trustees to issue \$12,000 7% Cheraw Special School Dist. bonds.

S. C., City View, Greenville—Sewer—City plans voting \$150,000 bonds.

S. C., Columbia—Legislature adopted free conference court on bill authorizing \$65,000, 000 bond issue for building state highway system.

S. C., Georgetown—Funding—City plans \$75,000 bond issue.

S. C., Greenville—Greenville County, H. F. Dill, Supvrs., may receive bids soon for \$150,000 tuberculosis hospital bonds. 11-15

S. C., Greenville—Bd. of School Trustees plans calling election on \$700,000 6% school bonds.

S. C., Marion—Marion County Bd. of School Trustees plans issuing and selling \$20,000, not to exceed 6% School Dist. No. 20 bonds.

S. C., Winnsboro—Fairfield County plans issuing \$161,000 bonds: \$36,000, 6%, Highway; \$125,000, school.

Tenn., Cleveland—Street—City Council considering \$150,000 bond issue.

Tenn., Elizabethton—City plans issuing \$75,000 bridge bonds.

Tenn., Jasper—School—Marion County defeated \$225,000 bond issue. 2-24

Tenn., Knoxville—Bridges—Knox County Court, Sam O. Houston, County Judge, plans selling \$400,000 bonds: \$250,000, McBee Bridge; \$150,000, Solway Bridge; E. D. Jeffries, County Supt. of Roads.

Tenn., Lebanon—Street—City, E. E. Adams, Ck., considering bond issue.

Tenn., Memphis—Revenue—City receives bids Mar. 26 for \$1,000,000, not to exceed 5 1/2% notes.

Tenn., Mountain City—Water—City votes April 10 on \$40,000 bonds.

Tenn., Nashville—Bridge—State, Henry B. Horton, Governor, receives bids Mar. 25 for \$4,000,000, not to exceed 5% bonds.

Tenn., Nashville—Hospital—City, Hilary E. Howse, Mayor, considering \$500,000 bond election.

Tenn., Trezevant—School—Town votes April 27 on \$60,000 bonds.

Tex., Anahuac—Road—Chambers County, Wallisville Precinct, votes Apr. 13 on \$20,000 bonds.

Tex., Austin—City, Adam R. Johnson, Mgr., plans selling \$1,000,000 bonds after July 1, 1929.

Tex., Bonham—Road—Fannin County, C. A. Wheeler, Judge, votes April 2 on \$2,700,000 bonds. 2-14

Tex., Boston—Road—Bowie County Road Dist. No. 6 voted bonds. 2-14

Tex., Beaumont—City, J. W. Anderson, Mgr., plans voting in Spring on \$2,985,800 bonds: \$1,371,000, \$603,500, sewer; \$175,000, park; \$100,000, airport; \$25,000, improvements to city auditorium; \$10,000, garbage dump; \$97,750, fire alarm equipment; \$51,000, fire department shop; \$33,300, motor equipment; \$63,000, fire stations; \$125,000, water line extensions; \$150,000, refunding; \$35,000, traffic equipment, etc.; South Texas State Fair, \$175,000; R. C. Black, City Engr. 2-28

Tex., Brownsville—Irrigation—Cameron County Water Improvement Dist. No. 11, voted \$500,000 bonds; V. L. Conrad, Engr. 2-28

Tex., Carrizo Springs—Carrizo Springs

School Dist., Warren E. Holmgreen, Pres., plans voting soon on \$100,000 bonds.

Tex., Corsicana—Navarro County Commrs. plan receiving bids for \$135,000 Purdon Road Dist. No. 2 bonds.

Tex., Crowell—Crowell Independent School Dist. voted \$10,000 bonds.

Tex., Dallas—Road, Bridge—Dallas County Commrs. plan issuing in April about \$2,500,000 of \$6,950,000 bonds, previously voted.

Tex., Dallas—Incinerator—City Commrs. plan \$100,000 bond issue.

Tex., Eastland—Eastland Independent School Dist. votes soon on \$75,000 bonds.

Tex., Hearne—School—City voted \$110,000 bonds. 2-14

Tex., Humble—Humble Independent School Dist., Harris County, E. K. Barden, Supt., voted \$140,000, 5% bonds; H. L. Washburn, County Auditor. 5-7

Tex., Murfreesboro—City, S. S. Cox, Mgr., votes Apr. 15 on \$300,000 bonds: \$50,000, school funding; \$250,000, water works funding. 3-7

Tex., Sudan—Water—City, W. W. Carpenter, Sec., receives bids Apr. 9 for \$47,000, 5 1/2%, \$1,000 denom. bonds. 12-13

Tex., Tyler—Municipal Improvement—City, Lee H. Powell, Mgr., may receive bids about Apr. 15 for \$230,000 bonds: \$175,000, sewer; \$25,000, airport; \$30,000, fire station. 3-7

Va., Independence—Road—Grayson County Bd. of Supvrs., Joe W. Parsons, Ck., receives bids April 8 for \$10,000 5% \$500 denom. district bonds.

W. Va., Elkins—Electric Power Plant—City voted \$135,000 bonds. 2-21

W. Va., Fairmont—Paw Paw School Dist., Marion County, votes Apr. 16 on \$225,000 bonds; E. E. Hale, County Supt. 2-7

W. Va., Huntington—Road—Cabell County, Grant Dist., votes Apr. 16 on \$236,000 bonds; J. M. Oliver, County Engr.

W. Va., Princeton—Courthouse, Jail—Mercer County Court may call election May 7 on, about \$600,000 bonds.

## Bond Issues Sold

Ala., Birmingham—City Comm., C. A. Armstrong, City Comptroller, sold \$2,370,000 bonds to syndicate composed of White, Weld & Co., Stone & Webster and Blodgett, Inc., both New York City; Old Colony Corporation, Boston, Mass.; First National Co., Detroit, Mich.; Marx & Co., Birmingham, Ala., at 100.02; \$1,000,000, 4 1/2%, school; \$1,000,000, 5%, grade crossing; \$370,000, 5%, general improvement. 2-28

Ala., Sheffield—City Commrs sold \$193,000 6% sewer and paving bonds to Marx & Co. and Steiner Brothers, both Birmingham, at \$2316 premium; Herbert M. Kinard, Mayor.

Ark., Wynne—Commrs. of paving Dist. No. 2 sold \$160,000, 5 1/2% bonds to Merchants & Planters Bank & Investment Co., Pine Bluff, 100.35.

Fla., Tallahassee—Leon County Bd. of Public Instruction, F. S. Hatfield, Sec., sold \$250,000 5% \$1,000 denom. Special Tax School Dist. No. 1 bonds to John Nuveen & Co., Chicago, Ill., 97.50. 2-28

La., Alexandria—Rapides Parish Police Jury, C. L. Durham, Treas., sold \$75,000, 5 1/4%, \$500 denom Road Dist. No. 36 bonds to J. A. Bentley and L. E. French, Alexandria, par, accrued interest and \$401 premium. 2-28

La., Amite—Tangipahoa Parish Drainage Dist. No. 1, J. M. Blache, Pres., sold \$110,000 5 1/4% \$1,000 denom. district gravity drainage bonds to Weil, Roth & Irving Co., Cincinnati, Ohio, par, accrued interest, plus \$610.

La., Columbia—Road—Caldwell Parish Police Jury, R. R. Reddick, Sec., reported, sold \$18,000 6% bonds to Security Banking Co., Pineville, La.

La., Lafayette—City, J. Gilbert St. Julien, Mayor, sold \$211,000, 5%, \$500 and \$1,000 denom. bonds to Bank of Lafayette & Trust Co., Lafayette, par, accrued interest and \$4,750 bonus, \$161,000, sewer extension and disposal plant; \$50,000, swimming pool. 2-7

La., Marksville—Avovelles Parish School Bd., C. E. Laborde, Sec., sold \$45,000 5 1/4% First Ward School Dist. No. 11 bonds to

(Continued on page 98)